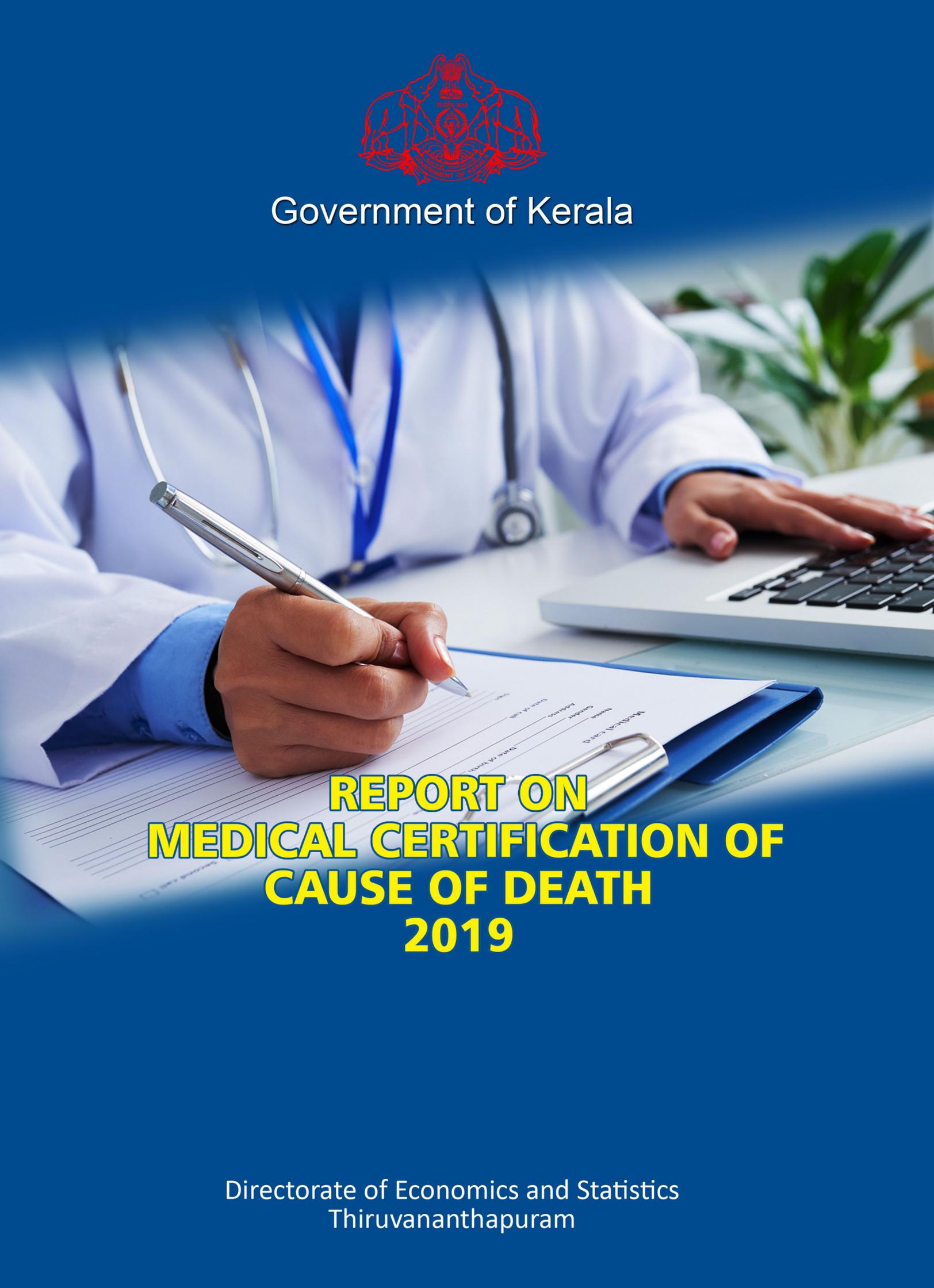




Government of Kerala

A close-up photograph of a doctor in a white lab coat with a stethoscope around their neck. The doctor is sitting at a desk, writing on a medical certificate form with a silver pen. A laptop is visible in the background. The form has fields for 'Name', 'Gender', 'Address', 'Date of Birth', and 'Date of Death'.

**REPORT ON  
MEDICAL CERTIFICATION OF  
CAUSE OF DEATH  
2019**

Directorate of Economics and Statistics  
Thiruvananthapuram



**Government of Kerala**

**REPORT ON  
MEDICAL  
CERTIFICATION OF  
CAUSE OF DEATH  
2019**

*Department of Economics and Statistics  
Thiruvananthapuram*



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# PREFACE

The World Health Organisation (WHO) has provided a whole some definition of health- 'Health is a state of complete physical, mental and social well-being and not merely the absence of diseases of infirmity'. This report on 'Medical Certification of Cause of Death 2019' is brought out by the Directorate of Economics & Statistics and office of the Additional Chief Registrar (Births & Deaths), Kerala. The Registration of Births and Deaths Act 1969 has the clause for certification of cause of death by the medical practitioners who have last attended the deceased. Section 10(2) of the act empowers the State Government to introduce the system of Medical Certification of Cause of Death in respective states.

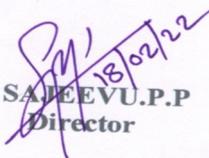
The report has been prepared exclusively on the basis of data on institutional deaths in four Corporations viz; Thiruvananthapuram, Kollam, Ernakulum and Kozhikode and Alappuzha Municipality. The study is confined to 11.73% of the total deaths in the State during the year 2019.

Data on medically certified deaths collected from 150 hospitals of the state have been tabulated in conformity with the ICD-Tenth Revision (ICD-10). The statistics on causes of death have been presented, cross tabulating them by age and sex. The report consists of three chapters. First chapter is the introduction on medical certification of cause of death (MCCD). Tables on detailed statistics pertaining to leading causes are given in chapter two. This chapter also includes analysis of deaths due to heart attack, cancer, tuberculosis, pneumonia, diabetic's mellitus etc. in five centres in Kerala. Specific cause of mortality in different age groups is given in third chapter.

I congratulate the MCCD team for preparation of this report and hope it will serve as a useful source of information for policy makers, planners and academicians and other stake holders who are directly or indirectly involved in the management of Public Health.

Thiruvananthapuram

Dated: 18/02/2022



SAJEEVU.P.P  
Director



## **CONTRIBUTING TEAM**

### **TEAM LEADER**

SAJEEVU P.P  
(Additional Chief Registrar of Births and Deaths)

### **DATA PROCESSING/ REPORT WRITING**

C.P.RESMI  
(Nosologist)

### **DATA VALIDATION/ DATA ENTRY**

VINU V.K  
(Research Assistant)

### **DATA COLLECTION/ ICD CODING**

D.SUSHAMA  
(Deputy Health Officer, Kollam)

PRASY.K.PRABHAKAR  
(Deputy Health Officer, Kochi)

D.PRASEEDA  
(Deputy Health Officer, Kozhikode)

### **EDITING & DESIGN**

PRAMEELA.M  
Selection Grade Typist.





## EXECUTIVE SUMMARY

Reliable cause specific mortality statistics is required on a regular basis by Administrators, Policy Planners, Researchers and other Professionals for evidence based decision making, resource allocation, monitoring of indicators, identifying priorities for programmes and other related activities in the area of Public Health. Keeping this in view, the scheme of Medical Certification of Cause of Death (MCCD) was introduced in the country under the provisions of Registration of Births and Deaths (RBD) Act, 1969. Section 10(2) of the Act empowers the State Government to enforce the provision relating to MCCD in specified areas taking into consideration the availability of medical facilities. Section 10(3) of the Act provides issuing a certificate of the cause of death by the medical practitioner who has attended the deceased at the time of death.

### Methodology

The necessary data is collected in the prescribed forms (Form No.4 for Institutional deaths and Form No.4A for Non-institutional deaths). Both these forms have been designed by World Health Organisation and are supposed to be filled-up by the medical professionals attending to the deceased at the time of terminal illness. Thereafter, these forms are to be sent to the concerned Registrars of Births and Deaths for tabulation as per National list, based on Tenth revision of International Classification of Diseases (ICD 10), for onward transmission to the Additional Chief Registrar's Office. The state subsequently sends it to the office of the Registrar General of India in the standardised format for national level consolidation.

**In Kerala** the scheme has been introduced in four Corporations viz; Thiruvananthapuram, Kollam, Kochi, Kozhikode and Alappuzha Municipality. The data on medically certified deaths received from these five centres in Form 4 have been tabulated in conformity with ICD-10. The statistics on causes of death have been presented in a tabular manner classified by age and sex.

## Scope of the report

The report on 'Medical Certification of Cause of Death 2019' is based on 31745 medically certified deaths reported from 150 hospitals. As mentioned above, owing to different levels of efficiency of medical certification across the State, the number of deaths reported therein may lack the representative feature in the strict sense. However, it may be sufficient to throw some light on deaths by various cause groups.

## Overall findings

Following are nine leading cause-groups of deaths constituting around 90.91% of total medically certified deaths:

- i. *Diseases of Circulatory System (31.14%).*
- ii *Neoplasm (16.16%).*
- iii *Endocrine, Nutritional and Metabolic Diseases (14.84%).*
- Iv *Diseases of the Respiratory System (9.87%).*
- V *Diseases of the Digestive System (6.67%).*
- Vi *Certain Infectious and Parasitic diseases (3.60%).*
- Vii *Injury, Poisoning and certain other consequences of External Causes (3.51%).*
- Viii *The Genitourinary System (2.99%).*
- xi *Certain condition originating in the perinatal period (2.13%).*

- Among the leading cause group 'Diseases of the Circulatory System', 'Ischemic Heart Diseases (I20-I25) (IHD)' and 'Cerebrovascular diseases (I60-I69)' account for the highest number of deaths. The shares of these two diseases are 41.32% and 33.35% respectively.
- The second leading cause group, Neoplasms (cancer) is responsible for 16.16% of the total medically certified deaths, of which 'Malignant neoplasm of digestive organs' accounts for 27.67%. This is followed by 'Malignant Neoplasms of respiratory and intrathoracic organs' (18.01%) and 'Malignant Neoplasms of Lymphoid, Haematopoietic and Related tissue' (16.51%) accounts more than one-sixth of deaths under this group.

- The group of ‘Endocrine, Nutritional and Metabolic Diseases’ is the third leading cause group accounting for 14.84% of the total medically certified deaths. Under this cause group, ‘Diabetes Mellitus’ group alone accounts for 89.24% deaths reported and which is 13.24% of total medically certified deaths respectively.
- ‘Diseases of the Respiratory System’ is the fourth leading cause group (9.87%). ‘Lower Respiratory Disorders’ accounting for around 75.23% of the total deaths under this category. The other underline cause in this group is ‘Other diseases of the respiratory system’ including ‘Pneumonia’ causing 24.70% of death.
- ‘Diseases of Digestive System’ is the fifth leading cause group accounting for 6.67% of the total medically certified deaths. Among the deaths due to disorders of digestive system, ‘Diseases of the Liver’ alone accounts for 78.08% of the total deaths under this group.
- The major group ‘Certain Infectious and Parasitic Diseases’ contributed 3.60% of deaths which is the sixth leading cause mainly constituted by Septicaemia and Tuberculosis.
- The seventh leading cause group ‘Injury, Poisoning and certain other consequences of External causes’ accounting 3.51% of the total medically certified deaths.
- The major group comprising ‘The Genitourinary System’ is the eighth leading cause accounting for 2.99% of the total medically certified deaths.
- The ninth leading group ‘Certain conditions originating in the perinatal period’ accounting for 2.13% of the total medically certified deaths. ‘Slow foetal growth, foetal malnutrition and immaturity’ and ‘All other conditions originating in the Perinatal period’ accounts for 43.79% and 25.89% of the deaths under this group.

### **Age-wise:**

- Around 3.49% of reported medically certified deaths have been of the infants (age less than 1 year).
- About 61.01% of infant deaths have been reported to be caused by ‘Certain conditions originating in the perinatal period’ and about 33.57% deaths have been caused by ‘Congenital Malformations, Deformations and Chromosomal Abnormalities’.
- Around 0.71% of reported medically certified deaths have been of the children aged ‘1-4’.
- Among the children aged ‘1-4’, ‘Congenital Malformations, Deformations and Chromosomal Abnormalities’ have taken the highest toll of 30.53% and 15.49% due to ‘Neoplasms’ in which 68.57% is due to ‘Leukaemia’.
- Around 0.93% of reported medically certified deaths have been of the children aged ‘5-14’.
- In the age group ‘5-14’, major group ‘Neoplasms’ is in the topmost position with the share of 20.27% in which 56.67% of death is due to ‘Leukaemia’.
- Around 1.76% of reported medically certified deaths have been in the age group ‘15-24’.
- In the age-group of ‘15-24’, major group ‘Injury Poisoning & certain other consequences of External causes’ is the leading cause contributing with 25.81%. It implies that this age-group

of adolescents is most vulnerable to injuries and poisoning related deaths. Around 15.23% of death under this age group is due to 'Neoplasm' in which 40.00% is due to 'Leukaemia'.

- Out of 558 deaths occurred in the age group '15-24', 12.34% of the death occurred due to 'Fractures, other injuries of specified, unspecified and multiple body regions, Intracranial and internal injuries, including nerves', of which 92 are males (92.5%).
- Around 2.66% of reported medically certified deaths have been in the age group '25-34'.
- In the age-group of '25-34', major group, 'Injury Poisoning & certain other consequences of External causes' is the first among the leading causes contributing around 17.79%. It implies that these age-groups of youths are also more vulnerable to injuries and poisoning related deaths. 'Neoplasm' contributes around 16.49% of death under this age group in which 17.27% is due to 'Leukaemia'.
- Around 5.19% of reported medically certified deaths have been in the age group '35-44'.
- In the age-group '35-44', the first two leading causes are 'Neoplasm' and 'Diseases of Circulatory System' having shares of 20.08% and 19.42% respectively. 'Diseases of the Digestive System' contributing around 13.17%.
- Around 12.75% of reported medically certified deaths have been in the age group '45-54'.
- For the age-groups of '45-54', the leading causes of death are 'Diseases of Circulatory System' and 'Neoplasm' having 25.49% and 21.86% respectively. 10.80% of deaths under this age group are related to 'Diseases of the Digestive System' in which 81.24% is due to 'Diseases of the liver'.
- 21.89% of the total medically certified death comes under the age group '55-64'. In this age group the first leading causes of death is 'Diseases of Circulatory System' (29.61%).
- In the age group '55-64' prominent leading causes followed is 'Neoplasm' having percentage of 20.57%. Under Neoplasm, 30% death comes under 'Malignant neoplasm of digestive organs (C15-C26)', 21.76% are 'Malignant neoplasm of respiratory and intrathoracic organs (C30-C39)' and 8.12% are 'Malignant neoplasm of breast'.
- In the age group '55-64' another prominent leading causes is 'Endocrine, Nutritional and Metabolic Diseases' having percentage of 16.94% in which 92.10% due to 'Diabetes mellitus'.
- Around 14.71% of reported medically certified deaths have been in the age group '65-69'.
- For the age-group 65-69 years, the leading causes of death is 'Diseases of Circulatory System' (34.01%). The cause 'Neoplasm' is the next major cause of death (19.71%). Under Neoplasm, 30.68% death comes under 'Malignant neoplasm of digestive organs (C15-C26)' and 24.00% under 'Malignant neoplasm of respiratory and intrathoracic organs (C30-C39)'.
- The age group 70 and above contributes the maximum incidence (35.76%) of total medically certified deaths. The leading cause of death is 'Diseases of Circulatory System' (41.42%). The cause 'Endocrine, Nutritional and Metabolic Diseases' and 'Diseases of the Respiratory System' are the next major causes which contributed 16.99% and 13.52% respectively. The cause 'Neoplasm' is the next major cause of death (11.48%).

## **Gender-wise:**

- Out of total medically certified death, 61.23% are male and 38.77% are female.
- There is significant difference between males and females for all age groups under medically certified deaths.
- For infant, age less than one year, 54.42% of deaths are from male and 45.58% female.
- The difference in percentage is significantly high in the age group above 15 years (males-62.77%, females-38.39%) and it is maximum in the age group '55-64' (males-66.94%, females-33.06%).
- In the age-group of 15-24, 66.49% of deaths are from male and 33.51% female, shows difference of 32.98 percentage.
- In the age-group of '15-24', out of 144 death due 'Injury Poisoning & certain other consequences of External causes', 107 are male (74.31%).
- Out of 280 deaths due to 'Malignant neoplasms of lip, oral cavity and pharynx (C00-C14)', 215 are male (76.79%).
- Out of 158 deaths due to 'Malignant neoplasm of oesophagus ( C15)', 121 are male (76.58%).
- Out of 459 deaths due to 'Malignant neoplasm of liver and intra hepatic bile ducts (C22)', 377 are male (82.13%).
- Out of 827 deaths due to 'Malignant neoplasm of trachea, bronchus and lung (C33-C34)', 691 are male (83.56%).
- Out of 79 deaths due to 'Malignant neoplasm of bladder (C67)', 67 are male (84.81%).
- Out of 58 deaths due to 'Diseases of the pancreas (K85-K86)', 45 are male (77.59%).
- Out of 1653 deaths due to 'Diseases of the liver ( K70-K76)', 1309 are male (79.19%).
- The percentage share of 'Chronic Obstructive Pulmonary Disease (COPD) (J60-J86,J92-J98)' to the total Medically Certified Deaths is 7.20%. Out of 2269 deaths due to COPD 1629 are male (71.79%).
- Out of 141 deaths due to 'Burns and Corrosions ( T20-T32)', 94 are female (66.67%).
- The percentages of female deaths (64.84%) are more in 'Acute rheumatic fever and chronic rheumatic heart diseases'.





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## CHAPTER-1

# INTRODUCTION

Medical Research is currently facing stiff challenges from the spread of variety of ailments like Cancer, AIDS, Heart Diseases, Juvenile diabetes, Non-communicable diseases, Swine flu and Chikungunya etc. For tackling these issues, good documentation of information on the causes of death is indispensable. Recognising this fact and in order to draw the profile of different natural and manmade causes of death, the international community of medical professionals, under the aegis of World Health Organisation have codified most of the disease labelling them ‘International Classification of Diseases (ICD)’. This ICD is customised to the Indian conditions under the scheme of ‘Medical Certification of Cause of Death (MCCD)’.

The scheme of Medical Certification of Cause of Death has got the statutory backing under sections 10(2) and 10(3), 17(1) (b) and 23(3) of the Registration of Births and Deaths Act, 1969.

The provisions relating to MCCD in Registration of Births & Deaths Act 1969, are as follows:

**Section 10(2):** In any area, the State Government having regard to the facilities available therein in this behalf may require that a certificate as to the cause of death shall be obtained by Registrar from such person and in such form as may be prescribed.

**Section 10(3):** Where the State Government has required under sub-section (2) that a certificate as to the cause of death shall be obtained, in the event of the death of any person who, during his last illness, was attended by a medical practitioner, the medical practitioner shall, after the death of that person, forthwith, issue without charging any fee, to the person required under this Act to give information concerning the death, a certificate in the prescribed form stating to the best of his knowledge and belief the cause of death; and the certificate shall be received and delivered by such person to the Registrar at the time of giving information concerning the death as required by this Act.

**Section 17(1) b):** Subject to any rules made in this behalf by the State Government, including rules relating to the payment of fees and postal charges, any person may obtain an extract from registration records relating to any death; provided that no extract relating to any death, issued to any person, shall disclose the particulars regarding the cause of death as entered in the register.

**Section 23(3):** Any medical practitioner who neglects or refuses to issue a certificate under sub-section (3) of section 10 and any person who neglects or refuses to deliver such certificates shall be punishable with fine which may extend to fifty rupees.

The necessary data is collected in the prescribed Form No.4 (Appendix-II) as filled in by the concerned hospital authorities. A separate Form No.4A (Appendix-III) has been prescribed for non-institutional deaths, which are attended to by the medical practitioners. These forms conform to the international format of medical certification of cause of death as evolved by the World Health Organisation (WHO). These forms comprising two parts which incorporate immediate and antecedent causes of death along with the identification and other particulars of the deceased. Part-I provides for entering the diseases in a specific sequence of events leading to death, so that the immediate cause is recorded first and then the underlying cause. The underlying cause is that morbid condition which initiated the chain of events leading to death. Besides, there is also a provision for recording the approximate intervals between onset of disease and death in the sequence of events. Part- II of the form allows recording information on other significant morbid conditions, but not directly related to the cause of death. Doctors attending to the deceased during his/her terminal illness are required to fill the forms up.

World Health Organisation (WHO) periodically reviews the system of International Classification of Diseases (ICD). Tenth revision of the ICD (ICD-10) was endorsed by the Forty-third World Health Assembly in May 1990 and came into use in WHO Member States as from 1994; however it has been adopted in the Office of the Registrar General of India (ORGI) for classification of causes of deaths since 1999 Report on MCCD. The statistics on medically certified causes of deaths has been tabulated as per the National List (ICD –10, modified according to Indian conditions) as given in Appendices-IV & V. The underlying cause of death is taken into account while tabulating the cause-specific mortality.

The statistics presented in this report, provide information on cause-specific mortality cross classified by sex and broad age-groups. The report is based on medically certified deaths occurring in hospitals (whether public or private) covered under the Scheme. As only selected hospitals, and that too mostly from urban areas, are covered at present under the scheme of MCCD, the profile presented here may not yield the reliable pattern of cause specific mortality prevalent in the states/country. Keeping this in view, the data- users may take due caution while deducing the mortality pattern.

The report is presented in 3 chapters and 9 appendices. Chapters 1 and 2 deal with ‘Scheme of MCCD: Status of Implementation’ and ‘Distribution of Deaths by Cause’ respectively. Chapter 3 analyses the specific cause of mortality among different age groups by gender. Appendices contain detailed statistical tables for ready reference.

## **CHAPTER-2**

# **LEADING CAUSES OF DEATH**

### **2.0 Introduction**

#### **2.1 Diseases of the Circulatory System (IX), ( I00-I99):**

- 2.1.1 Ischemic Heart Diseases
- 2.1.2 Cerebrovascular Diseases
- 2.1.3 Diseases of Pulmonary Circulation and other forms of Heart Diseases
- 2.1.4 Hypertensive Diseases.
- 2.1.5 Other Diseases of the Circulatory System
- 2.1.6 Acute Rheumatic Fever and Chronic Rheumatic Heart Diseases

#### **2.2. Neoplasms (II), (C00-D48):**

- 2.2.1 Malignant Neoplasms of Digestive Organs
  - 2.2.1.1 Malignant Neoplasm of Liver
  - 2.2.1.2 Malignant Neoplasm of Stomach
- 2.2.2 Malignant Neoplasm of Respiratory and Intra Thoracic Organs
- 2.2.3 Malignant Neoplasms of Lymphoid, Haematopoietic and Related Tissue
  - 2.2.2.1 Leukaemia
- 2.2.4 Malignant Neoplasms of Genitourinary Organs
- 2.2.5 Malignant Neoplasms of Bone, Mesothelial and Soft Tissue, Skin and Breast
- 2.2.6 Malignant Neoplasms of Other and Unspecified Sites
- 2.2.7 Malignant Neoplasms of Lip, Oral cavity and Pharynx
- 2.2.8 Other Neoplasms

#### **2.3 Endocrine, Nutritional and Metabolic Diseases (IV): (E00-E89)**

#### **2.4. Diseases of the Respiratory System (X): (J00-J98)**

#### **2.5 Diseases of the Digestive System (XI): (K00-K92)**

- 2.5.1 Diseases of the Liver

## **2.6 Certain Infectious and Parasitic Diseases (I): (A00-B99)**

- 2.6.1 Septicaemia.
- 2.6.2 Tuberculosis
- 2.6.3 Human Immunodeficiency Virus [HIV]
- 2.6.4 Hepatitis B

## **2.7 Injury Poisoning and Certain Other Consequences of External Causes (XIX): (S00-T98)**

- 2.7.1 Fractures, other injuries of specified, unspecified and multiple body regions, Intracranial and internal injuries, including nerves
- 2.7.2 Poisonings by drugs & biological substances; and Toxic effects of substances chiefly non-medicinal as to source
- 2.7.3 Burns and Corrosions

## **2.8 Diseases of the Genitourinary System (XIV): (N00-N99)**

## **2.9 Certain Conditions Originating in the Perinatal Period (XVI) : ( P00-P96)**

## **2.10 Distribution of Causes of Deaths under 'Other Groups'**



## CHAPTER-2

# LEADING CAUSES OF DEATH

### 2.0 Introduction

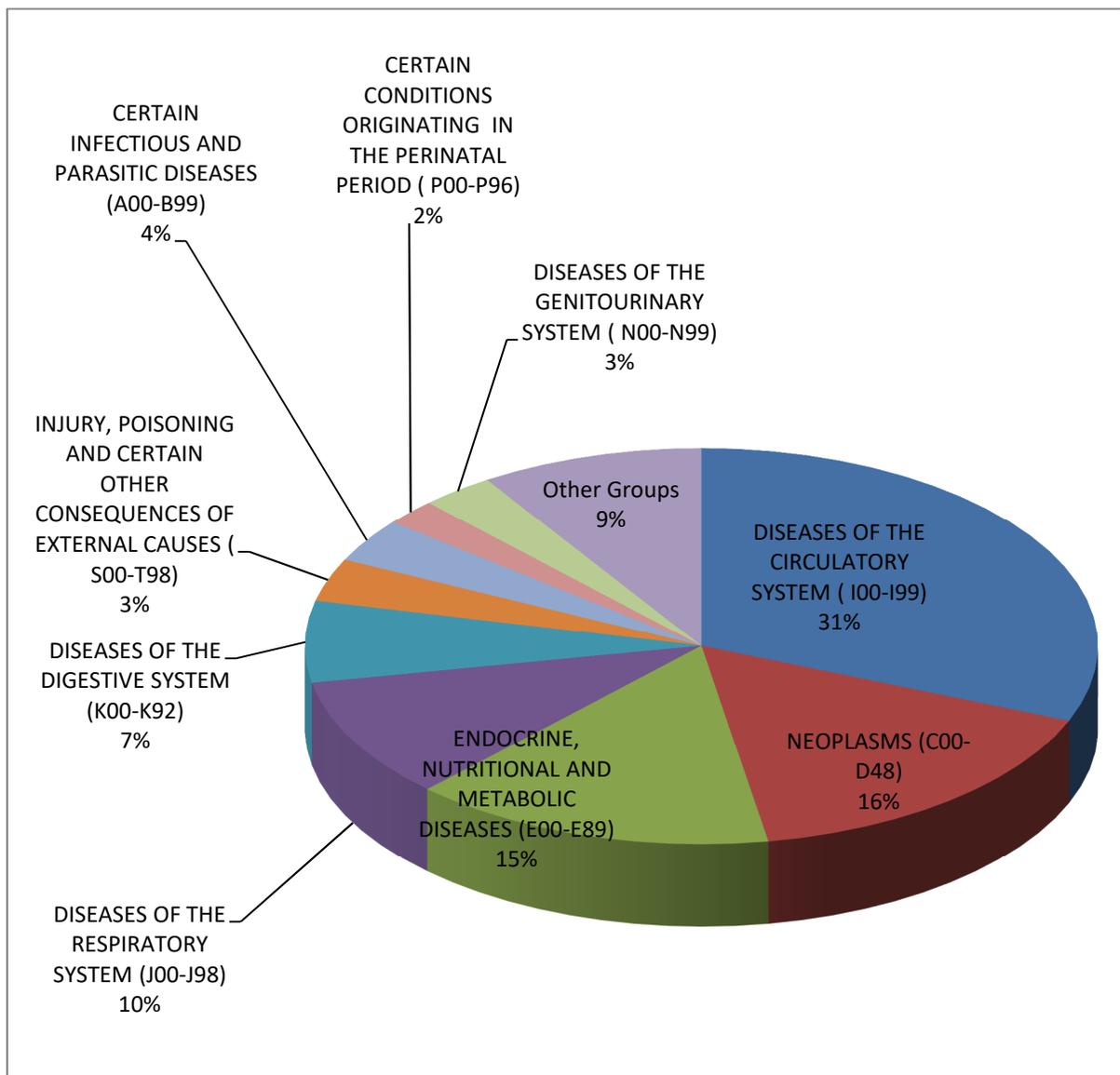
Diseases of the Circulatory System (I00-I99), Neoplasm (C00-D48), Endocrine, Nutritional and Metabolic Diseases (E00-E89), Diseases of the Respiratory System (J00-J98), Diseases of the Digestive System (K00-K92), Certain Infectious and Parasitic Diseases (A00-B99), Injury, Poisoning and Certain other Consequences of External Causes (S00-T98), Diseases of the Genitourinary System (N00-N99), and Certain Conditions Originating in the Perinatal Period (P00-P96) taken together account for about 90.91% of the total Medically Certified Deaths. The remaining causes of deaths are grouped in 'Other Group' category.

Table 2.0: Medically Certified Deaths by Sex and leading cause-groups during 2019

Sl.No	CAUSE OF DEATH	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	DISEASES OF THE CIRCULATORY SYSTEM ( I00-I99)	5792	29.80	4094	33.27	9886	31.14
2	NEOPLASMS (C00-D48)	3085	15.87	2046	16.62	5131	16.16
3	ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES (E00-E89)	2626	13.51	2085	16.94	4711	14.84
4	DISEASES OF THE RESPIRATORY SYSTEM (J00-J98)	2064	10.62	1069	8.69	3133	9.87
5	DISEASES OF THE DIGESTIVE SYSTEM (K00-K92)	1616	8.31	501	4.07	2117	6.67
6	CERTAIN INFECTIOUS AND PARASITIC DISEASES (A00-B99)	729	3.75	415	3.37	1144	3.60
7	INJURY, POISONING AND CERTAIN OTHER CONSEQUENCES OF EXTERNAL CAUSES ( S00-T98)	811	4.17	302	2.45	1113	3.51
8	DISEASES OF THE GENITOURINARY SYSTEM ( N00-N99)	596	3.07	352	2.86	948	2.99
9	CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD ( P00-P96)	365	1.88	311	2.53	676	2.13
10	Other Groups	1754	9.02	1132	9.20	2886	9.09
	TOTAL	19438	100	12307	100	31745	100.00

Among the leading cause groups, ‘Diseases of Circulatory System (I00-I99) constitute 31.14% followed by ‘Neoplasms (C00-D48)’ 16.16%, ‘Endocrine, Nutritional and Metabolic Diseases (E00-E89)’ 14.84%, ‘Diseases of the Respiratory System (J00-J98)’ 9.87%, ‘Diseases of the Digestive system (K00-K92)’ 6.67%, ‘Certain Infectious and Parasitic Diseases’ 3.60%, ‘Injury, Poisoning and Certain Other Consequences of External Causes (S00-T98)’ 3.51%, Diseases of the Genitourinary System ( N00-N99) 2.99 % , ‘Certain Conditions Originating in the Perinatal Period (P00-P96)’ 2.13% and ‘Other groups’ constitute around 9.09% respectively.

Chart 2.0: Percentage of deaths under MCCD by leading cause group



## 2.1 Diseases of the Circulatory System (IX), (I00-I99):

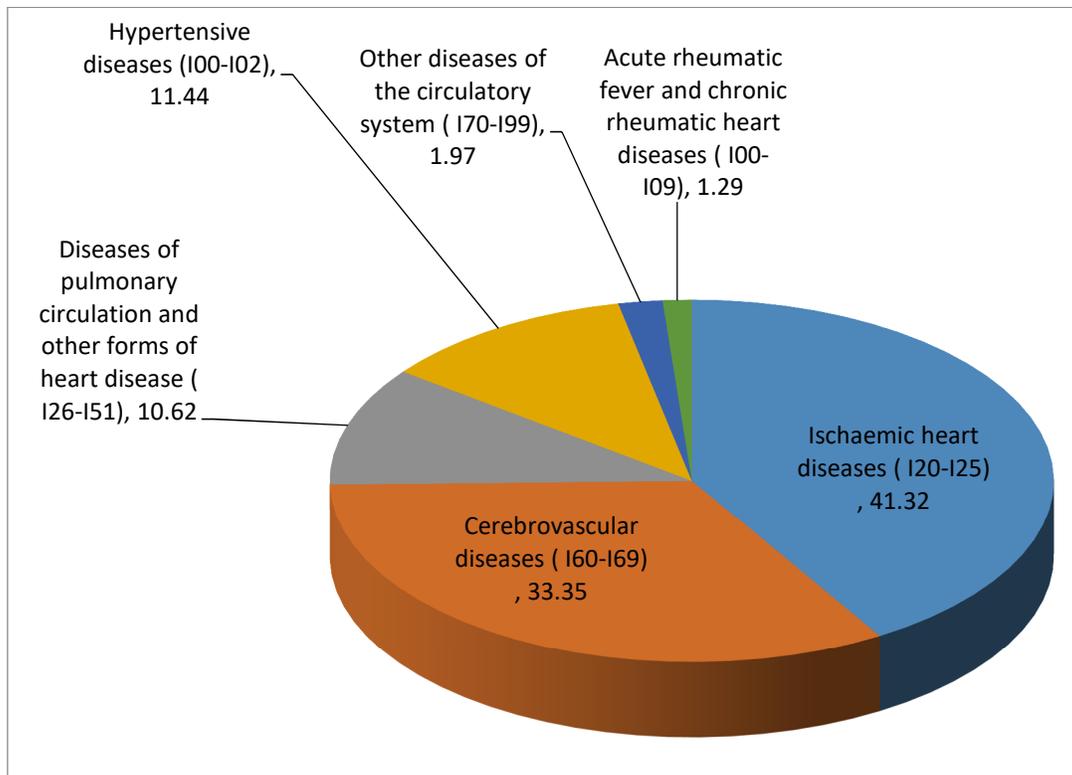
Deaths reported under ‘Diseases of the Circulatory System’ are the major death cause which accounted 31.14% of the total Medically Certified Deaths during 2019. Out of this the percentage death based on gender was 29.80% male and 33.27% female respectively. ‘Ischaemic heart diseases ( I20-I25) (41.32%)’, ‘Cerebrovascular diseases (I60-I69) (33.35%)’, ‘Hypertensive diseases (I00-I02)(11.44%)’ and ‘Diseases of pulmonary circulation and other forms of heart disease ( I26-I51) (10.62%)’ are the major cause groups under ‘Diseases of the Circulatory System’. Table 2.1 and Chart 2.1 depict the number and percentage of death due to diseases of circulatory system according to gender and under line cause of death within the leading cause group.

**Table 2.1**

### : Distribution of major causes of deaths under ‘Diseases of Circulatory System’

SL.NO	CAUSE OF DEATH	SEX					
		MALE		FEMALE		TOTAL	
		NO	%	NO	%	NO	%
1	Ischaemic heart diseases (120-125)	2566	44.30	1519	37.10	4085	41.32
2	Cerebrovascular diseases (160-169)	1890	32.63	1407	34.37	3297	33.35
3	Hypertensive diseases (100-102)	606	10.46	525	12.82	1131	11.44
4	Diseases of pulmonary circulation and other forms of heart disease (126-151)	559	9.65	491	11.99	1050	10.62
5	Other diseases of the circulatory system (170-199)	126	2.18	69	1.69	195	1.97
6	Acute rheumatic fever and chronic rheumatic heart diseases (100-109)	45	0.78	83	2.03	128	1.29
7	Total Medically Certified Deaths due to Diseases of Circulatory System	5792	100	4094	100	9886	100
	Deaths due to diseases of Circulatory System as percentage to total medically certified deaths	5792	29.80	4094	33.27	9886	31.14

**Chart 2.1: Medically certified deaths due to ‘Diseases of Circulatory System’**

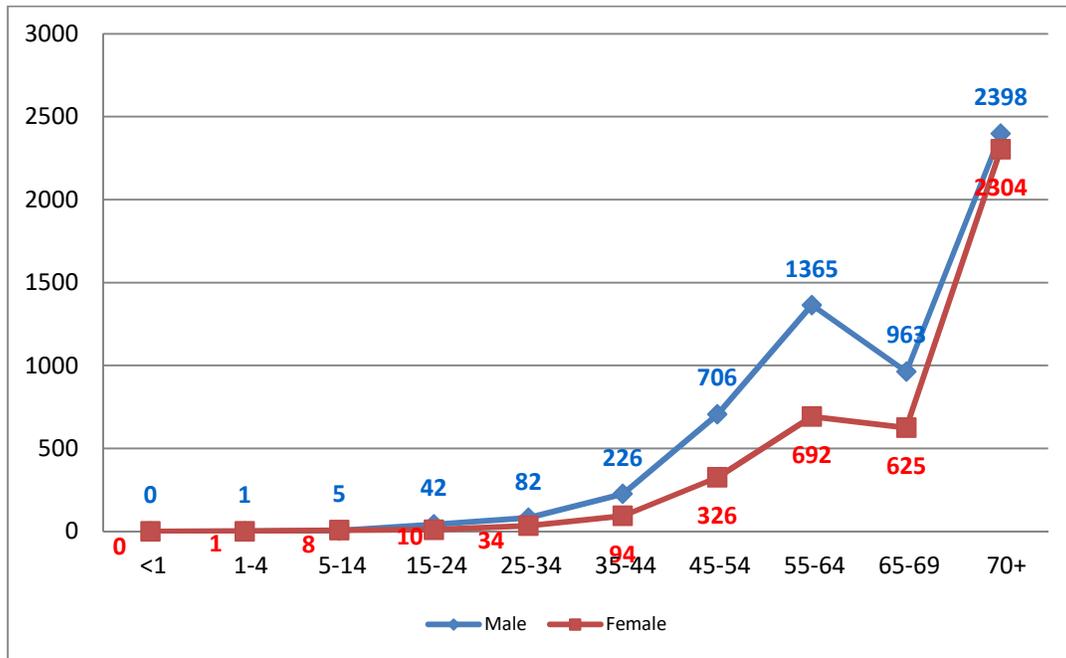


Age and sex wise analysis of medically certified deaths due to ‘Diseases of Circulatory System’ has been given in Table 2.2 and in Chart 2.2. The age distribution under this cause group circulatory system shows that the number of incidence of death increases with advancing age. Male deaths within the age group 55-64 are about double the number of female deaths . Age and sex wise data shows the number of death of both gender are narrow up to the age group of 25-34 and thereafter the gap widen and reached in peak in the age group 55-64 then again tend to narrow the gap after 65-69 age group. Within ‘Disease of the circulatory system’ group ‘Ischemic heart diseases (120-125)’ and ‘Cerebrovascular diseases (160-169)’ together comes around 74.67% of the total deaths.

**Table 2.2: Age & Sex wise distribution of deaths due to ‘Diseases of Circulatory System’.**

Sl,No	Age Group	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	<1	0	0.00	0	0.00	0	0.00
2	1-4	1	0.02	1	0.02	2	0.02
3	5-14	5	0.09	8	0.20	13	0.13
4	15-24	42	0.73	10	0.24	52	0.53
5	25-34	82	1.42	34	0.83	116	1.17
6	35-44	226	3.90	94	2.30	320	3.24
7	45-54	706	12.19	326	7.96	1032	10.44
8	55-64	1365	23.57	692	16.90	2057	20.81
9	65-69	963	16.63	625	15.27	1588	16.06
10	70+	2398	41.40	2304	56.28	4702	47.56
11	N.S.	4	0.07	0	0.00	4	0.04
<b>TOTAL</b>		<b>5792</b>	<b>100.00</b>	<b>4094</b>	<b>100.00</b>	<b>9886</b>	<b>100</b>

**Chart 2.2: Age & Sex wise distribution of deaths due to 'Diseases of Circulatory System'**



### 2.1.1 Ischemic Heart Diseases (I20-I25)

The sub-group 'Ischemic Heart Diseases (IHD)' characterized by reduced blood supply to the heart muscle, usually due to Coronary artery disease (arthrosclerosis of the Coronary arteries) accounts for the highest number of deaths (41.32%) under the major group 'Diseases of Circulatory System'. Out of the death due to Ischemic Heart Disease, 62.82% were males and 37.18% females. 12.87 percentage of the total medically certified death is due to 'Ischemic Heart Disease'. The age distribution of medically certified deaths due to 'Ischemic Heart Diseases (IHD)' has been given in Table 2.3. It is the main cause of death above the age group '45 and above' which is about 97.11% of the total death under this group.

**Table 2.3: Age & Sex wise distribution of deaths due to ‘Ischemic Heart Diseases (IHD)’**

Sl.No	Age Group	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	<1	0	0.00	0	0.00	0	0.00
2	1-4	0	0.00	1	0.07	1	0.02
3	5-14	0	0.00	0	0.00	0	0.00
4	15-24	2	0.08	1	0.07	3	0.07
5	25-34	17	0.66	4	0.26	21	0.51
6	35-44	75	2.92	18	1.18	93	2.28
7	45-54	288	11.22	110	7.24	398	9.74
8	55-64	638	24.86	280	18.43	918	22.47
9	65-69	450	17.54	234	15.40	684	16.74
10	70+	1096	42.71	871	57.34	1967	48.15
11	NS		0	0.00	0	0.00	0
TOTAL		2566	100	1519	100	4085	100

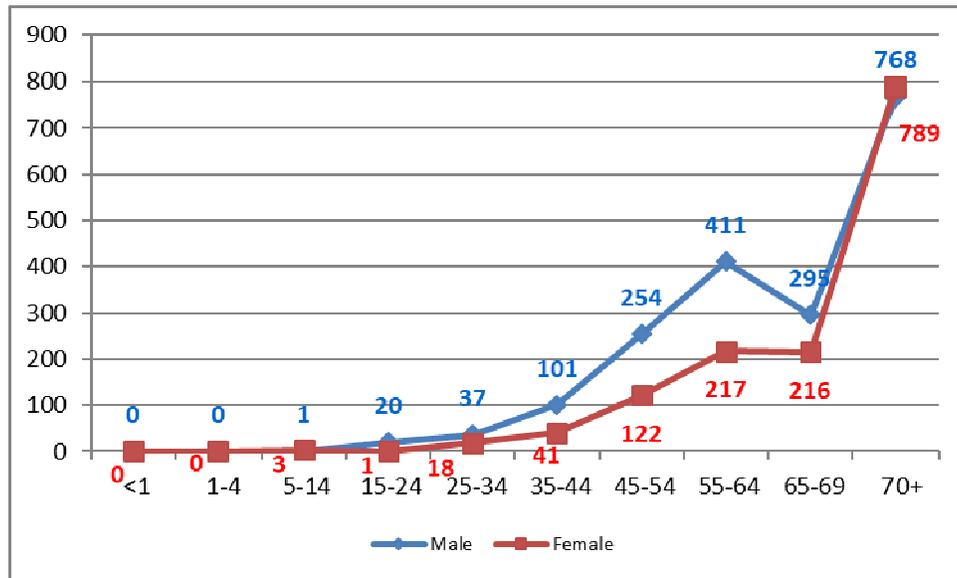
## 2.1.2 Cerebrovascular Diseases ( I60-I69)

The sub group ‘Cerebrovascular Diseases’ is reported to be the second highest cause of deaths constituting 33.35% of the ‘Diseases of Circulatory System’. More deaths occurred in ‘45 and above’ age group. The gender breakup of the total death due to ‘Cerebrovascular Diseases’ are 32.63% were males and 34.37% were female. 10.39 percentage of the total medically certified death is due to ‘Cerebrovascular Diseases’. The age distribution of medically certified deaths due to ‘Cerebrovascular Diseases’ has been given in Table 2.4 and is graphically represented in Chart 2.3.

**Table 2.4: Age & Sex wise distribution of deaths due to ‘Cerebrovascular Diseases’**

Sl.No	Age Group	SEX					
		Male		Female		Total	
		No	%	No	%	No	%
1	<1	0	0.00	0	0.00	0	0.00
2	1-4	0	0.00	0	0.00	0	0.00
3	5-14	1	0.05	3	0.21	4	0.12
4	15-24	20	1.06	1	0.07	21	0.64
5	25-34	37	1.96	18	1.28	55	1.67
6	35-44	101	5.34	41	2.91	142	4.31
7	45-54	254	13.44	122	8.67	376	11.40
8	55-64	411	21.75	217	15.42	628	19.05
9	65-69	295	15.61	216	15.35	511	15.50
10	70+	768	40.63	789	56.08	1557	47.22
11	N.S.	3	0.16	0	0.00	3	0.09
<b>TOTAL</b>		<b>1890</b>	<b>100</b>	<b>1407</b>	<b>100</b>	<b>3297</b>	<b>100</b>

**Chart 2.3: Age & Sex wise distribution of deaths due to ‘Cerebrovascular Diseases’**



### 2.1.3 Hypertensive Diseases (I10-I15)

The sub group ‘Hypertensive Diseases’ is reported to be the third highest cause of deaths constituting 11.44% the ‘Diseases of Circulatory System’. More deaths reported in ‘55 and above’ age group. Out of the death due to Hypertensive Diseases, 53.58% were males and 46.42% females.

**Table 2.5: Age & Sex wise distribution of deaths due to ‘Hypertensive Diseases’**

Sl.No	Age Group	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	<1	0	0.00	0	0.00	0	0.00
2	1-4	0	0.00	0	0.00	0	0.00
3	5-14	0	0.00	0	0.00	0	0.00
4	15-24	1	0.17	1	0.19	2	0.18
5	25-34	5	0.83	0	0.00	5	0.44
6	35-44	9	1.49	3	0.57	12	1.06
7	45-54	62	10.23	27	5.14	89	7.87
8	55-64	144	23.76	90	17.14	234	20.69
9	65-69	119	19.64	78	14.86	197	17.42
10	70+	266	43.89	326	62.10	592	52.34
11	N.S.	0	0.00	0	0.00	0	0.00
<b>TOTAL</b>		<b>606</b>	<b>100</b>	<b>525</b>	<b>100</b>	<b>1131</b>	<b>100</b>

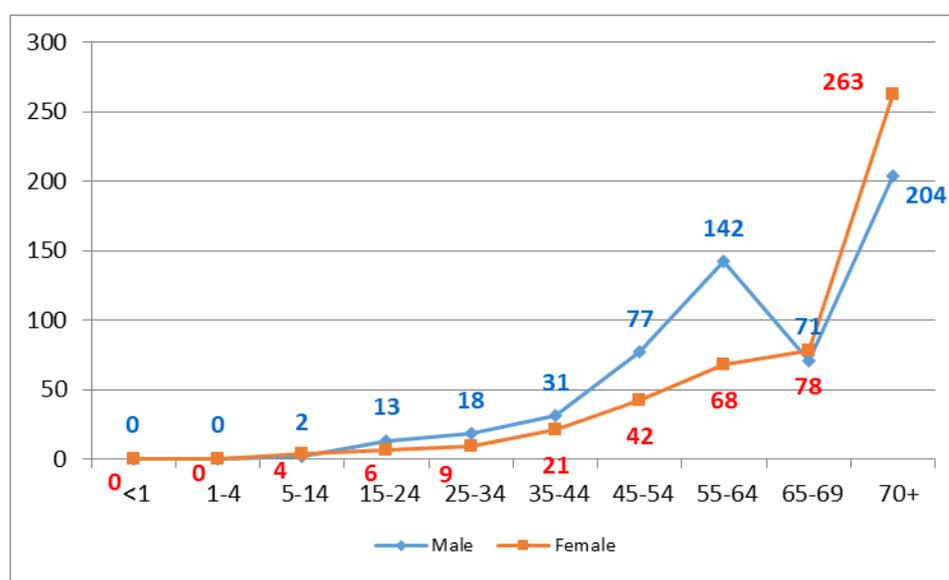
#### **2.1.4 Diseases of Pulmonary Circulation and other forms of Heart Diseases. ( I26-I51)**

‘Diseases of Pulmonary Circulation and other forms of heart diseases’ is the fourth major cause of death under the group ‘Diseases of Circulatory System’. Numbers of deaths are more in the age group 55 and above, are under ICD I26-I51 disease category. Out of the total deaths due to ‘Diseases of Pulmonary Circulation and other forms of Heart Diseases’, 53.24% are males and 46.76% females.

**Table 2.6: Age & Sex wise distribution of deaths due to ‘Diseases of Pulmonary Circulation and other forms of Heart Diseases’**

Sl,No	Age Group	SEX					
		Male		Female		Total	
		Number	%	Number	%	Number	%
1	<1	0	0.00	0	0.00	0	0.00
2	1-4	0	0.00	0	0.00	0	0.00
3	5-14	2	0.36	4	0.81	6	0.57
4	15-24	13	2.33	6	1.22	19	1.81
5	25-34	18	3.22	9	1.83	27	2.57
6	35-44	31	5.55	21	4.28	52	4.95
7	45-54	77	13.77	42	8.55	119	11.33
8	55-64	142	25.40	68	13.85	210	20.00
9	65-69	71	12.70	78	15.89	149	14.19
10	70+	204	36.49	263	53.56	467	44.48
11	N.S.	1	0.18	0	0.00	1	0.10
<b>TOTAL</b>		<b>559</b>	<b>100</b>	<b>491</b>	<b>100</b>	<b>1050</b>	<b>100</b>

**Chart 2.4: Age & Sex wise distribution of deaths due to ‘Diseases of Pulmonary Circulation and other forms of Heart Diseases’**



### 2.1.5 Other diseases of the Circulatory System (I70-I99)

‘Other diseases of the circulatory system’ contributing 1.97% events cause under the major group ‘Diseases of Circulatory System’, which includes diseases of arteries, arterioles & capillaries. Out of the death due to ‘Other diseases of the circulatory system’, 64.62% were males and 35.38% females. Maximum deaths reported for ‘45 and above’ age group.

**Table 2.7: Age & Sex wise distribution of deaths due to ‘Other diseases of the Circulatory System’**

Sl. No	Age Group	SEX					
		Male		Female		Total	
		No	%	No	%	No	%
1	<1	0	0.00	0	0.00	0	0.00
2	1-4	1	0.79	0	0.00	1	0.51
3	5-14	1	0.79	1	1.45	2	1.03
4	15-24	3	2.38	1	1.45	4	2.05
5	25-34	2	1.59	1	1.45	3	1.54
6	35-44	7	5.56	4	5.80	11	5.64
7	45-54	16	12.70	7	10.14	23	11.79
8	55-64	19	15.08	10	14.49	29	14.87
9	65-69	24	19.05	9	13.04	33	16.92
10	70+	53	42.06	36	52.17	89	45.64
11	N.S.	0	0.00	0	0.00	0	0.00
<b>TOTAL</b>		<b>126</b>	<b>100</b>	<b>69</b>	<b>100</b>	<b>195</b>	<b>100</b>

## 2.1.6 Acute Rheumatic Fever and Chronic Rheumatic Heart Diseases

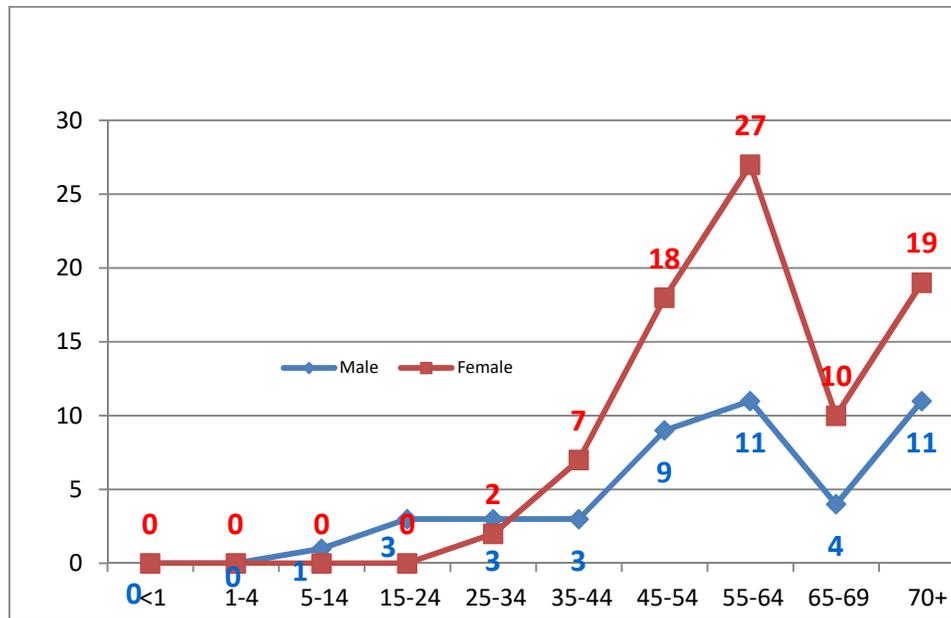
### (I00-I09)

‘Acute Rheumatic Fever and Chronic Rheumatic Heart Diseases’ (1.29%) are another leading cause under the major group ‘Diseases of Circulatory System’. The percentages of *female* deaths (64.84%) are more in ‘Acute rheumatic fever and chronic rheumatic heart diseases’.

**Table 2.8: Age & Sex wise distribution of deaths due to ‘Acute Rheumatic Fever and Chronic Rheumatic Heart Diseases’.**

Sl.No	Age Group	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	<1	0	0.00	0	0.00	0	0.00
2	1-4	0	0.00	0	0.00	0	0.00
3	5-14	1	2.22	0	0.00	1	0.78
4	15-24	3	6.67	0	0.00	3	2.34
5	25-34	3	6.67	2	2.41	5	3.91
6	35-44	3	6.67	7	8.43	10	7.81
7	45-54	9	20.00	18	21.69	27	21.09
8	55-64	11	24.44	27	32.53	38	29.69
9	65-69	4	8.89	10	12.05	14	10.94
10	70+	11	24.44	19	22.89	30	23.44
11	N.S.	0	0.00	0	0.00	0	0.00
<b>TOTAL</b>		<b>45</b>	<b>100</b>	<b>83</b>	<b>100</b>	<b>128</b>	<b>100</b>

**Chart 2.5: Age & Sex wise distribution of deaths due to ‘Acute Rheumatic Fever and Chronic Rheumatic Heart Diseases’**



## 2.2. Neoplasms/Cancer (II), (C00-D48):

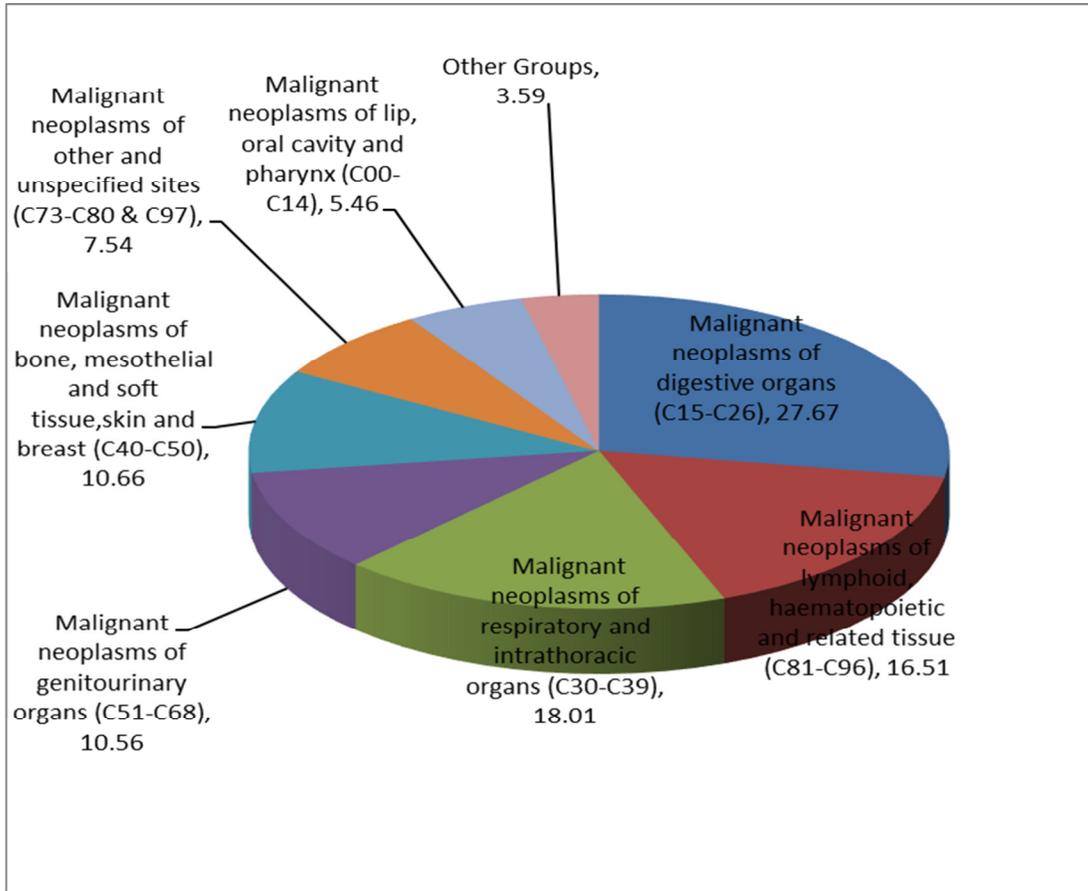
‘Neoplasm’, which is commonly known as Cancer, is responsible for 16.16% of the total Medically Certified Deaths. The percentage of deaths due to ‘Neoplasms’ in total males deaths is 15.87% as compared to the corresponding figure of 16.62% in case of female. Out of 5131 Neoplasm deaths, 3085 were males (60.13%) and 2046 females (39.88%). The distribution of major causes of deaths under the group is given in the Table 2.9 and Chart 2.6.

**Table 2.9: Distribution of major causes of deaths among ‘Neoplasms’**

Sl. No	CAUSE OF DEATH	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	Malignant neoplasms of digestive organs (C15-C26)	1002	32.48	418	20.43	1420	27.67
2	Malignant neoplasms of respiratory and intrathoracic organs (C30-C39)	782	25.35	142	6.94	924	18.01
3	Malignant neoplasms of lymphoid, haematopoietic and related tissue (C81-C96)	500	16.21	347	16.96	847	16.51
4	Malignant neoplasms of bone, mesothelial and soft tissue, skin and breast (C40-C50)	67	2.17	480	23.46	547	10.66
5	Malignant neoplasms of genitourinary organs (C51-C68)	67	2.17	480	23.46	547	10.66
6	Malignant neoplasms of other and unspecified sites (C73-C80 & C97)	181	5.87	206	10.07	387	7.54
7	Malignant neoplasms of lip, oral cavity and pharynx (C00-C14)	215	6.97	65	3.18	280	5.46
8	Other Groups	102	3.31	82	4.01	184	3.59
Total Medically Certified Deaths due to Neoplasm		<b>3085</b>	<b>100</b>	<b>2046</b>	<b>100</b>	<b>5131</b>	<b>100</b>
Deaths due to Neoplasm as percentage to total medically certified deaths		<b>3085</b>	<b>15.87</b>	<b>2046</b>	<b>16.62</b>	<b>5131</b>	<b>16.16</b>

Among the ‘Neoplasm’ deaths, ‘Malignant Neoplasm of Digestive Organs’ accounts for the highest mortality (27.67%), followed by ‘Malignant Neoplasm of Respiratory and Intrathoracic Organs’ (18.01%), ‘Malignant Neoplasm of Lymphoid, Haematopoietic & other related tissue’ (16.51%), ‘Malignant neoplasms of bone, mesothelium and soft tissue, skin and breast’ (10.66%), ‘Malignant neoplasms of genitourinary organs’ (10.56%) and ‘Malignant neoplasms of other unspecified sites’ (7.54%), and ‘Malignant neoplasms of lip, oral cavity and pharynx’ (5.46%) are other major causes.

**Chart 2.6: Percentage distribution of major causes of deaths due to ‘Neoplasms’**



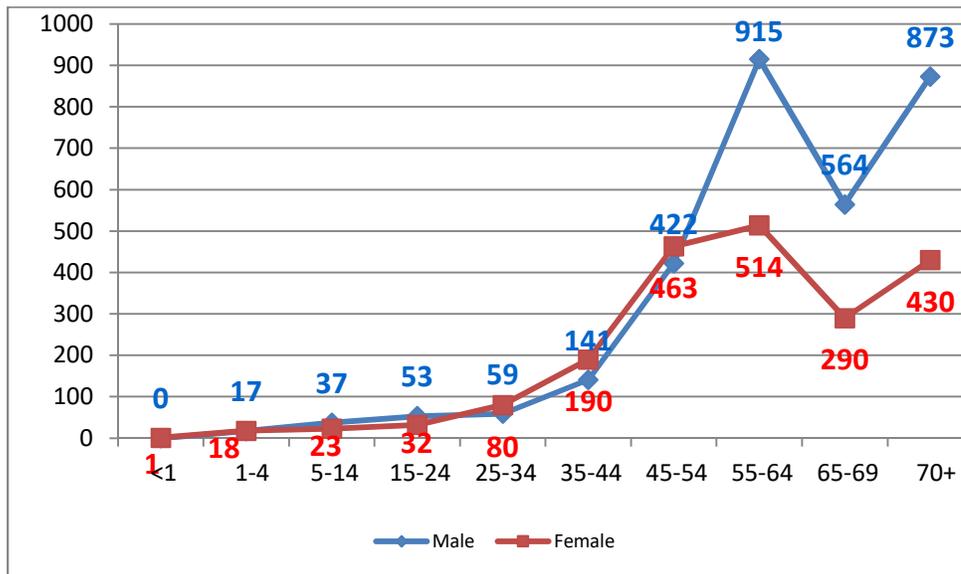
The number of ‘Neoplasm’ deaths are more in ‘45 and above’ age group. The tendency of Neoplasm deaths are low for the male and female for the age group up to 44 and the gap become widen after ‘45 and above’ age group. The age distribution of medically certified deaths due to ‘Neoplasm’ has been given in Table 2.10.

**Table 2.10: Age distribution of deaths due to ‘Neoplasm’.**

Sl.No	Age Group	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	<1	0	0.00	1	0.05	1	0.02
2	1-4	17	0.55	18	0.88	35	0.68
3	5-14	37	1.20	23	1.12	60	1.17
4	15-24	53	1.72	32	1.56	85	1.66
5	25-34	59	1.91	80	3.91	139	2.71
6	35-44	141	4.57	190	9.29	331	6.45
7	45-54	422	13.68	463	22.63	885	17.25
8	55-64	915	29.66	514	25.12	1429	27.85
9	65-69	564	18.28	290	14.17	854	16.64
10	70+	873	28.30	430	21.02	1303	25.39
11	N.S.	4	0.13	5	0.24	9	0.18
<b>TOTAL</b>		<b>3055</b>	<b>3085</b>	<b>100</b>	<b>2046</b>	<b>100</b>	<b>5131</b>

The age distribution of medically certified deaths due to ‘Neoplasm’ has been highlighted in Chart 2.7. The age distribution under this cause group is increases with age.

**Chart 2.7: Age distribution of deaths due to ‘Neoplasm’**



### 2.2.1 Malignant Neoplasms of Digestive Organs (C15-C26)

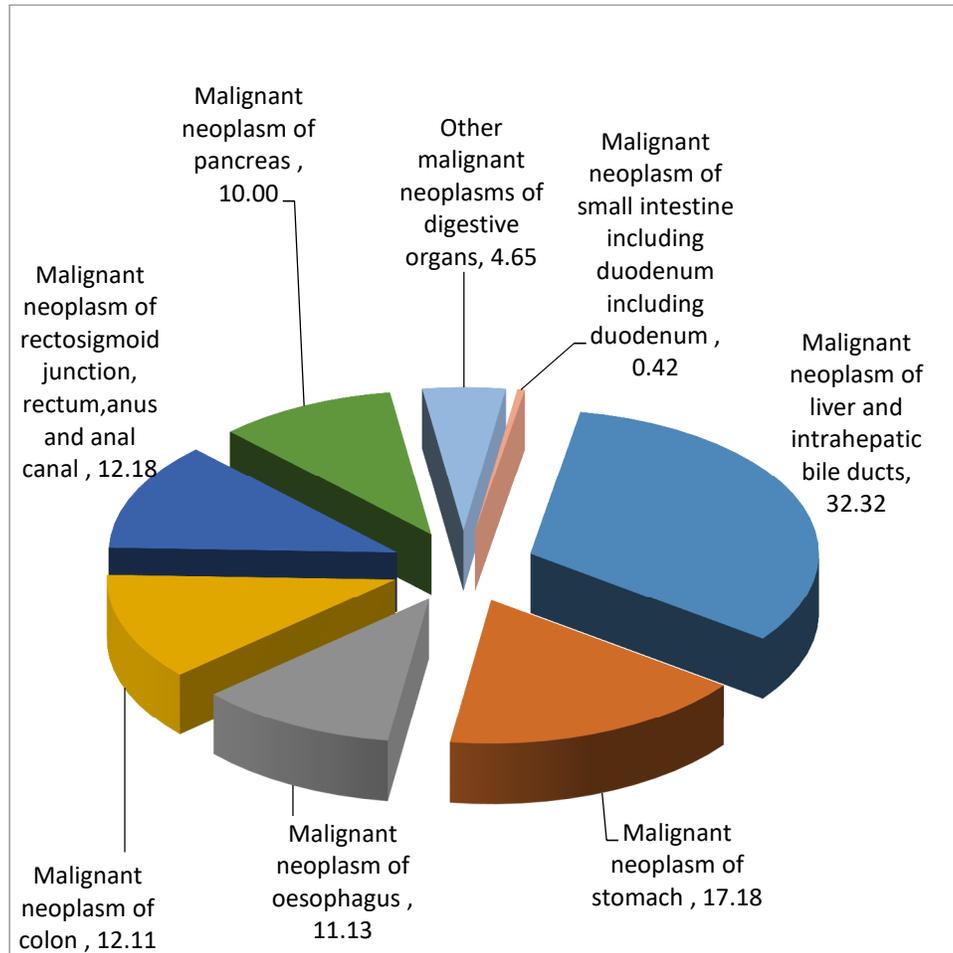
The sub group ‘Malignant Neoplasms of Digestive Organs’ is reported to be the highest cause of deaths constituting 27.67% of the deaths due to ‘Neoplasm’. The share of deaths due to ‘Malignant Neoplasms of Digestive Organs’ in males deaths is 32.80% as against 20.83% of corresponding female deaths. Out of 1420 death under this cause, 1002 were males (70.56%). That shows ‘Malignant Neoplasms of Digestive Organs’ in males are more than double that of females.

Among the deaths under ‘Malignant Neoplasms of Digestive Organs’, 32.32% is due to ‘Malignant neoplasm of liver’. Out of which the male death accounts for about 82.14% of the total deaths due to malignancy in liver. ‘Malignant Neoplasm of Stomach’(17.18%), ‘Malignant neoplasm of colon’ (12.11%), ‘Malignant neoplasm of oesophagus’(11.13%), ‘Malignant neoplasm of recto sigmoid junction, rectum, anus and anal canal’ (12.18%), ‘Malignant neoplasm of pancreas’ (10%), are other major causes under this group. The distribution of major causes of deaths under the group is given in the Table 2.11 and depicted in Chart 2.8.

**Table 2.11: Distribution of major causes of deaths among ‘Malignant Neoplasms of Digestive Organs’**

Sl, No	CAUSE OF DEATH	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	Malignant neoplasm of liver and intrahepatic bile ducts	377	37.62	82	19.62	459	32.32
2	Malignant neoplasm of stomach	176	17.56	68	16.27	244	17.18
3	Malignant neoplasm of oesophagus	121	12.08	37	8.85	158	11.13
4	Malignant neoplasm of colon	93	9.28	79	18.90	172	12.11
5	Malignant neoplasm of rectosigmoid junction, rectum,anus and anal canal	111	11.08	62	14.83	173	12.18
6	Malignant neoplasm of pancreas	85	8.48	57	13.64	142	10.00
7	Other malignant neoplasms of digestive organs	36	3.59	30	7.18	66	4.65
8	Malignant neoplasm of small intestine including duodenum including duodenum	3	0.30	3	0.72	6	0.42
Total Medically Certified Deaths due to 'Malignant neoplasms of digestive organs '		<b>1002</b>	<b>100</b>	<b>418</b>	<b>100</b>	<b>1420</b>	<b>100</b>
Deaths due to 'Malignant neoplasms of digestive organs' as percentage to total Neoplasm deaths.		<b>1002</b>	<b>32.48</b>	<b>418</b>	<b>20.43</b>	<b>1420</b>	<b>27.67</b>

**Chart 2.8: Percentage distribution of major causes of deaths due to ‘Malignant Neoplasms of Digestive Organs’ .**

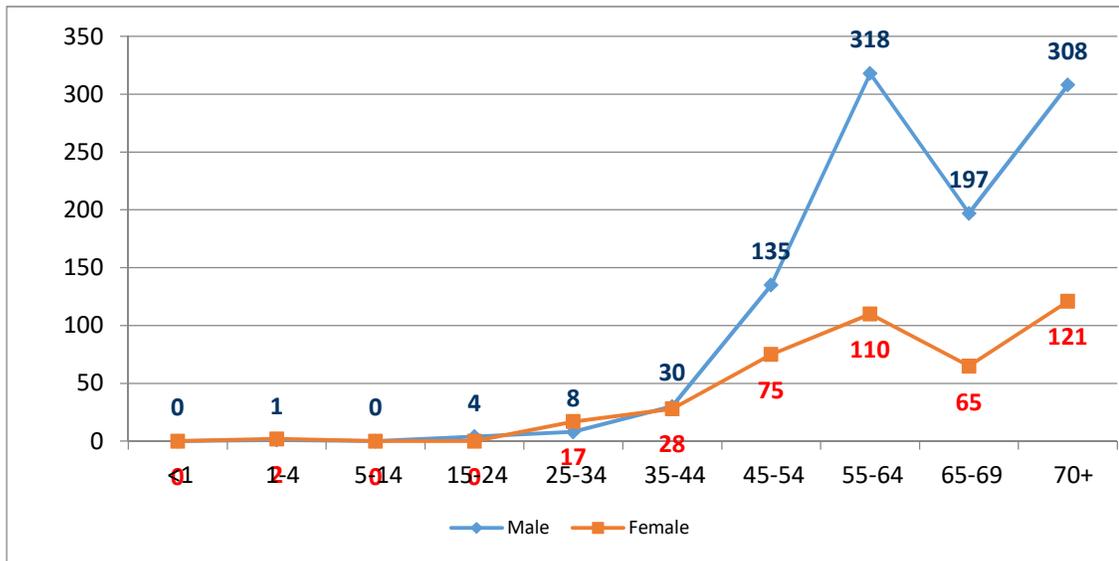


Comparatively less number of ‘Malignant Neoplasms of Digestive Organs’ death occurred for ‘25 and below’ age group. Number of deaths are more in ‘55 and above’ age group. Number of death is almost the same for male and female for the age up to 34 under this group. For ‘35 and above’ age, male deaths are more. Above 55 years age the number of male death is three times as that of female death. The age wise distribution of major causes of deaths under ‘Malignant Neoplasms of Digestive Organs’ given in the Table 2.12 and depicted in Chart 2.9

**Table 2.12: Age distribution of deaths due to ‘Malignant Neoplasms of Digestive Organs’**

Sl.No	Age Group	SEX					
		Male		Female		Total	
		No	%	No	%	No.	%
1	<1	0	0.00	0	0.00	0	0.00
2	1-4	1	0.10	2	0.48	3	0.21
3	5-14	0	0.00	0	0.00	0	0.00
4	15-24	4	0.40	0	0.00	4	0.28
5	25-34	8	0.80	17	4.07	25	1.76
6	35-44	30	2.99	28	6.70	58	4.08
7	45-54	135	13.47	75	17.94	210	14.79
8	55-64	318	31.74	110	26.32	428	30.14
9	65-69	197	19.66	65	15.55	262	18.45
10	70+	308	30.74	121	28.95	429	30.21
11	N.S.	1	0.10	0	0.00	1	0.07
<b>TOTAL</b>		<b>1002</b>	<b>100</b>	<b>418</b>	<b>100</b>	<b>1420</b>	<b>100</b>

**Chart 2.9: Age distribution of deaths due to ‘Malignant Neoplasms of Digestive Organs’**



### 2.2.1.1 Malignant Neoplasm of Liver (C22)

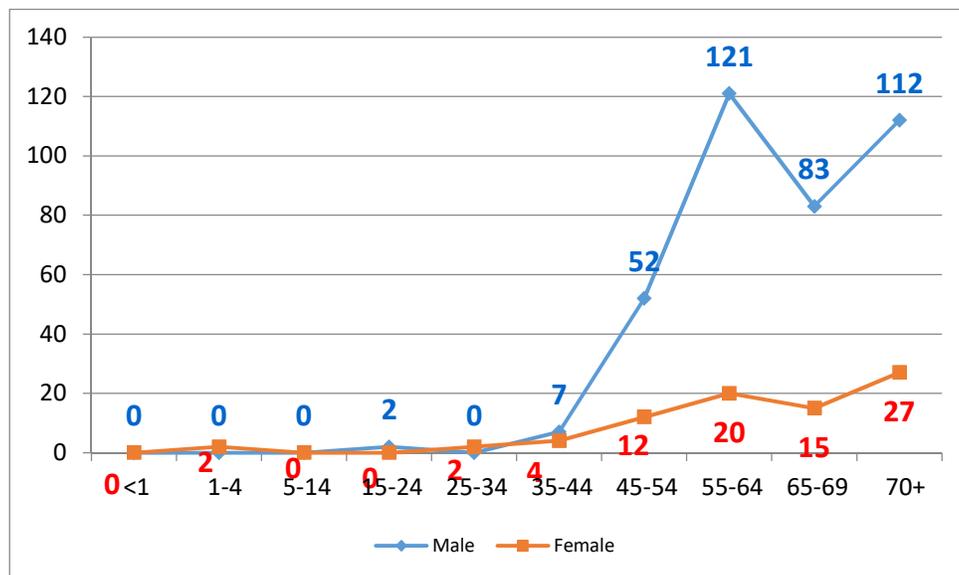
Among the death covered under ‘Malignant Neoplasms of Digestive Organs’, 32.32% is due to ‘Malignant neoplasm of liver’. Out of 459 deaths due to ‘Malignant neoplasm of liver’, 377 were male deaths (82.14%). This is around five times more than that of female deaths. ‘Malignant neoplasm of liver’ is the cause for 8.95% of total ‘Neoplasm’ deaths. Number of male death under this group is 12.20% of the total male neoplasm deaths. Considering the total medically certified deaths, 1.45% of death is due to this cause. And also considering the total medically certified male deaths, 1.94% of death is due to this cause.

Number of deaths is very less for age ‘under 34’. For ‘45 and above’ age groups, number of deaths is increasing and maximum number of deaths occurred for the age group ‘55-64’. The age distribution of medically certified deaths due to ‘Malignant neoplasm of liver’ has been given in Table 2.13 and Chart 2.10.

**Table 2.13: Age distribution of deaths due to ‘Malignant neoplasm of liver’**

Sl.No	Age Group	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	<1	0	0.00	0	0.00	0	0.00
2	1-4	0	0.00	2	2.44	2	0.44
3	5-14	0	0.00	0	0.00	0	0.00
4	15-24	2	0.53	0	0.00	2	0.44
5	25-34	0	0.00	2	2.44	2	0.44
6	35-44	7	1.86	4	4.88	11	2.40
7	45-54	52	13.79	12	14.63	64	13.94
8	55-64	121	32.10	20	24.39	141	30.72
9	65-69	83	22.02	15	18.29	98	21.35
10	70+	112	29.71	27	32.93	139	30.28
11	N.S.	0	0.00	0	0.00	0	0.00
<b>TOTAL</b>		<b>377</b>	<b>100</b>	<b>82</b>	<b>100</b>	<b>459</b>	<b>100</b>

**Chart 2.10: Age distribution of deaths due to ‘Malignant neoplasm of liver’**



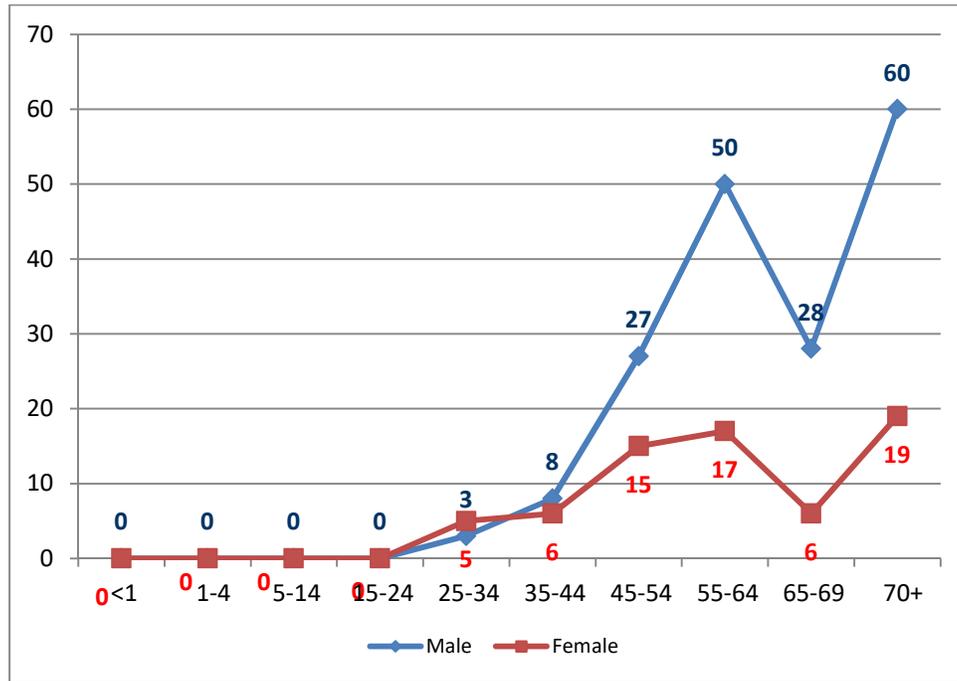
### 2.2.1.2 Malignant Neoplasm of Stomach (C16)

Among the death covered under ‘Malignant Neoplasms of Digestive Organs’, 17.18% is due to ‘Malignant Neoplasm of Stomach’ and the incidence of deaths are occur in males. Out of 244 deaths due to ‘Malignant Neoplasm of Stomach’, 176 were male deaths (72.13%). No deaths occurred under age 24. For ‘45 and above’ age, number of deaths in upward trend and maximum number of deaths occurred for the age group ‘55-64’. The age distribution of medically certified deaths due to ‘Malignant Neoplasm of Stomach’ given in Table 2.14 and in Chart 2.11.

**Table 2.14: Age distribution of deaths due to ‘Malignant Neoplasm of Stomach’**

.No	Age Group	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	<1	0	0.00	0	0.00	0	0.00
2	1-4	0	0.00	0	0.00	0	0.00
3	5-14	0	0.00	0	0.00	0	0.00
4	15-24	0	0.00	0	0.00	0	0.00
5	25-34	3	1.70	5	7.35	8	3.28
6	35-44	8	4.55	6	8.82	14	5.74
7	45-54	27	15.34	15	22.06	42	17.21
8	55-64	50	28.41	17	25.00	67	27.46
9	65-69	28	15.91	6	8.82	34	13.93
10	70+	60	34.09	19	27.94	79	32.38
TOTAL		176	100	68	100	244	100

**Chart 2.11: Age distribution of deaths due to ‘Malignant Neoplasm of Stomach’**



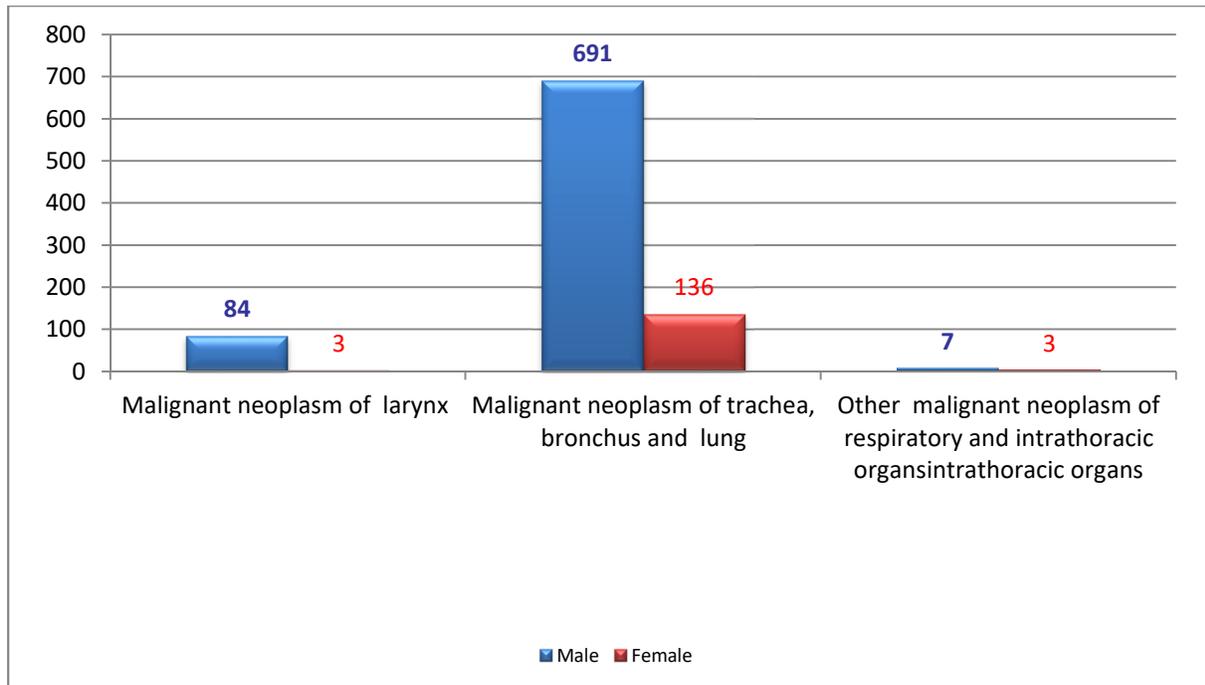
### 2.2.2 Malignant Neoplasm of Respiratory and Intra Thoracic Organs (C30-C39)

The sub group ‘Malignant Neoplasm of Respiratory and Intra Thoracic Organs’ is reported to be the second highest cause of deaths constituting 18.01% of the ‘Neoplasm’ deaths. Among the death covered under ‘Malignant Neoplasm of Respiratory and Intra Thoracic Organs’, 89.50% is due to ‘Malignant neoplasm of lungs’. Out of 924 deaths due to ‘Malignant Neoplasm of Respiratory and Intra Thoracic Organs’, 782 are male (84.63%). The distribution of major causes of deaths under the group is given in the Table 2.15 and depicted in Chart 2.12.

**Table 2.15: Distribution of major causes of deaths among ‘Malignant Neoplasms of Respiratory and Intra Thoracic Organs’**

Sl.No	CAUSE OF DEATH	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	Malignant neoplasm of larynx	84	10.74	3	2.11	87	9.42
2	Malignant neoplasm of trachea, bronchus and lung	691	88.36	136	95.77	827	89.50
3	Other malignant neoplasm of respiratory and intrathoracic organs	7	0.90	3	2.11	10	1.08
Total Medically Certified Deaths due to Malignant neoplasms of respiratory and intrathoracic organs		<b>782</b>	<b>100</b>	<b>142</b>	<b>100</b>	<b>924</b>	<b>100</b>
Deaths due to 'Malignant neoplasms of respiratory and intrathoracic organs' as percentage to total Neoplasm deaths.		<b>3085</b>	<b>25.35</b>	<b>2046</b>	<b>6.94</b>	<b>5131</b>	<b>18.01</b>

**Chart 2.12: Distribution of major causes of deaths among ‘Malignant Neoplasms of Respiratory and Intra Thoracic Organs’**



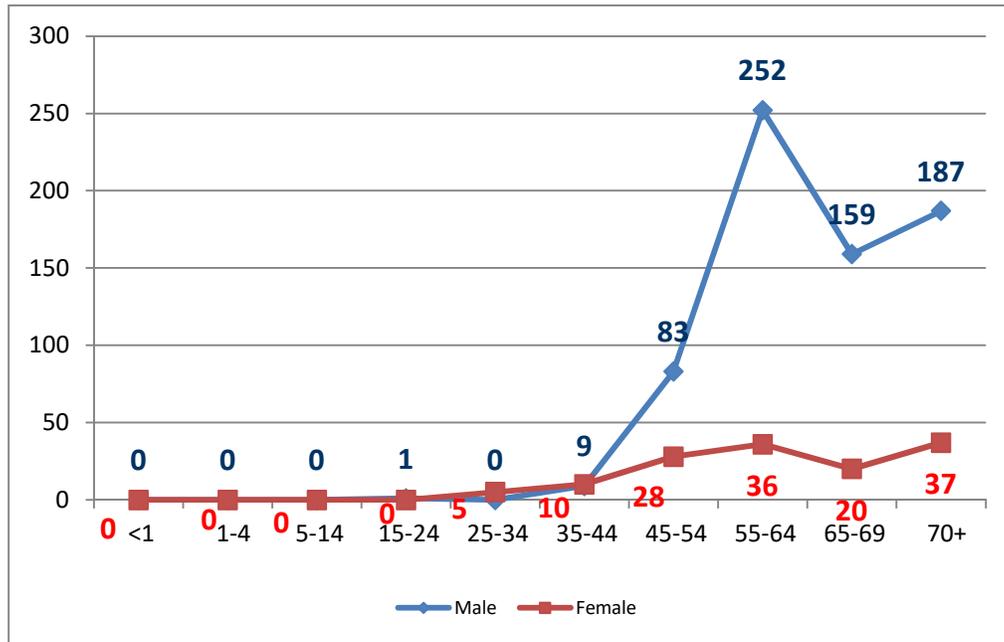
Among deaths caused by ‘Malignant Neoplasm of Respiratory and Intra Thoracic Organs’ about 74.78% is due to Lung Cancer in male. Lung Cancer in male alone accounts for around 22.40% of total male Neoplasm deaths. Out of 827 deaths due to ‘Malignant Neoplasm of Lungs’, 691 were male deaths (88.56%). This is more than five times that of female deaths. The age distribution of medically certified deaths due to ‘Malignant neoplasm of lungs’ has been highlighted in Table 2.16.

**Table 2.16: Age distribution of deaths due to ‘Malignant neoplasm of lungs’**

Sl.No	Age Group	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	<1	0	0.00	0	0.00	0	0.00
2	1-4	0	0.00	0	0.00	0	0.00
3	5-14	0	0.00	0	0.00	0	0.00
4	15-24	1	0.14	0	0.00	1	0.12
5	25-34	0	0.00	5	3.68	5	0.60
6	35-44	9	1.30	10	7.35	19	2.30
7	45-54	83	12.01	28	20.59	111	13.42
8	55-64	252	36.47	36	26.47	288	34.82
9	65-69	159	23.01	20	14.71	179	21.64
10	70+	187	27.06	37	27.21	224	27.09
11	N.S.	0	0.00	0	0.00	0	0.00
<b>TOTAL</b>		<b>691</b>	<b>100</b>	<b>136</b>	<b>100</b>	<b>827</b>	<b>100</b>

The age distribution of medically certified deaths due to ‘Malignant neoplasm of lungs’ has been highlighted in Chart 2.13.

**Chart 2.13: Age distribution of deaths due to ‘Malignant Neoplasm of Lungs’**



### 2.2.3 Malignant Neoplasms of Lymphoid, Haematopoietic and Related Tissue

The sub group ‘Malignant Neoplasms of Lymphoid, Haematopoietic and Related Tissue’ is reported to be the third highest cause of deaths constituting 16.51% of the deaths due to ‘Neoplasm’. The percentage of female deaths due to ‘Malignant neoplasms of lymphoid, haematopoietic and related tissue’ to total female neoplasm deaths is 16.96% as compared to 16.21% of corresponding male neoplasm deaths.

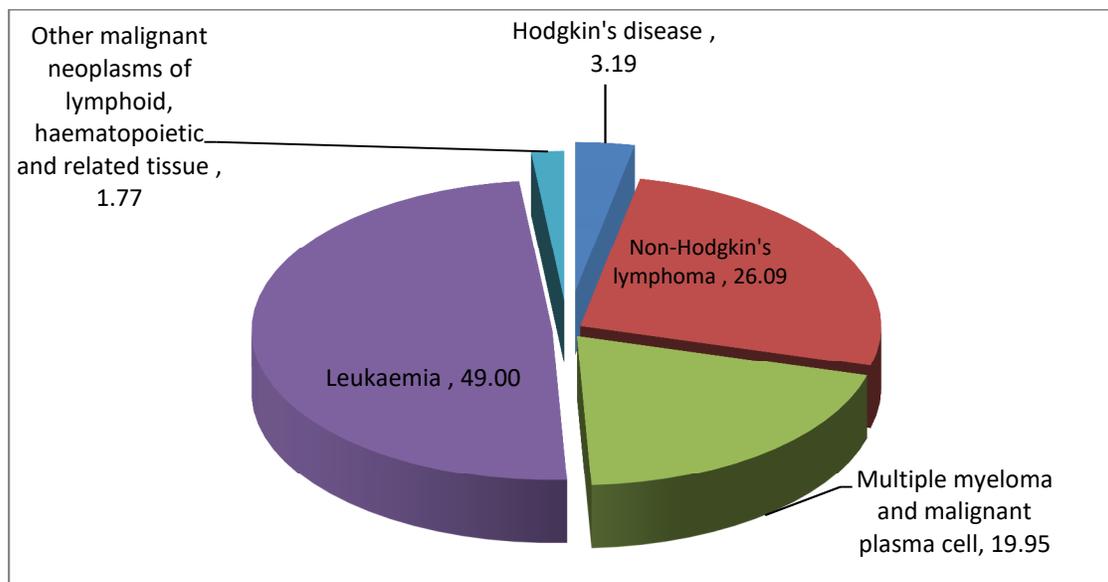
Among the death covered under the group, 49% is due to ‘Leukaemia’. ‘Non-Hodgkin’s lymphoma’ (26.09%), ‘Multiple myeloma and malignant plasma cell’ (19.95%) are other major causes. The distribution of major causes of deaths under the group is given in the Table 2.17.

**Table 2.17: Age distribution of deaths due to ‘Malignant Neoplasms of Lymphoid, Haematopoietic and Related Tissue’**

Sl, No	CAUSE OF DEATH	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	Leukaemia	235	47.00	180	51.87	415	49.00
2	Non-Hodgkin's lymphoma	141	28.20	80	23.05	221	26.09
3	Multiple myeloma and malignant plasma cell	93	18.60	76	21.90	169	19.95
4	Other malignant neoplasms of lymphoid, haematopoietic and related tissue	12	2.40	3	0.86	15	1.77
5	Hodgkin's disease	19	3.80	8	2.31	27	3.19
<b>Total Medically Certified Deaths due to Malignant neoplasms of lymphoid, haematopoietic and related tissue</b>		<b>500</b>	<b>100</b>	<b>347</b>	<b>100</b>	<b>847</b>	<b>100</b>

The major causes of death in the group ‘Malignant Neoplasms of Lymphoid, Haematopoietic and Related Tissue’ is given on Chart 2.14.

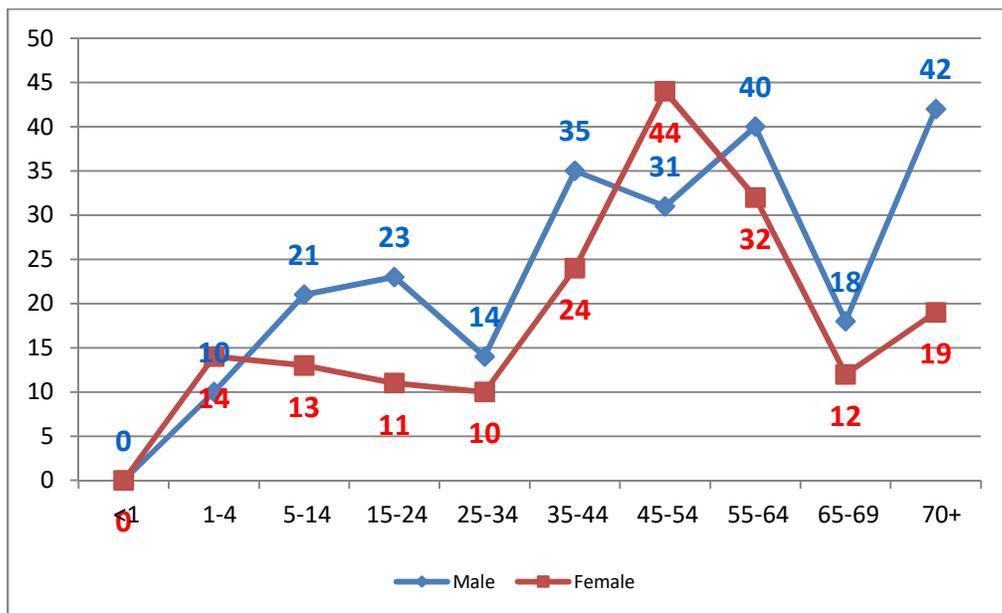
**Chart 2.14: Distribution of major causes of deaths among ‘Malignant Neoplasms of Lymphoid, Haematopoietic and Related Tissue’**



### 2.2.2.1 Leukaemia

In the sub group ‘Malignant Neoplasms of Lymphoid, Haematopoietic and Related Tissue’, 49% of death is due to Leukaemia. 56.63% of death due to Leukaemia was among males. It occurred in all age groups and maximum number of deaths in the age group ‘45-54’. It is one of the main reasons for death of children in the age group ‘1-14’. The age distribution of medically certified deaths due to Leukaemia has been highlighted in Chart 2.15.

**Chart 2.15: Age distribution of deaths due to ‘Leukaemia’**



### 2.2.4 Malignant Neoplasms of Genitourinary Organs

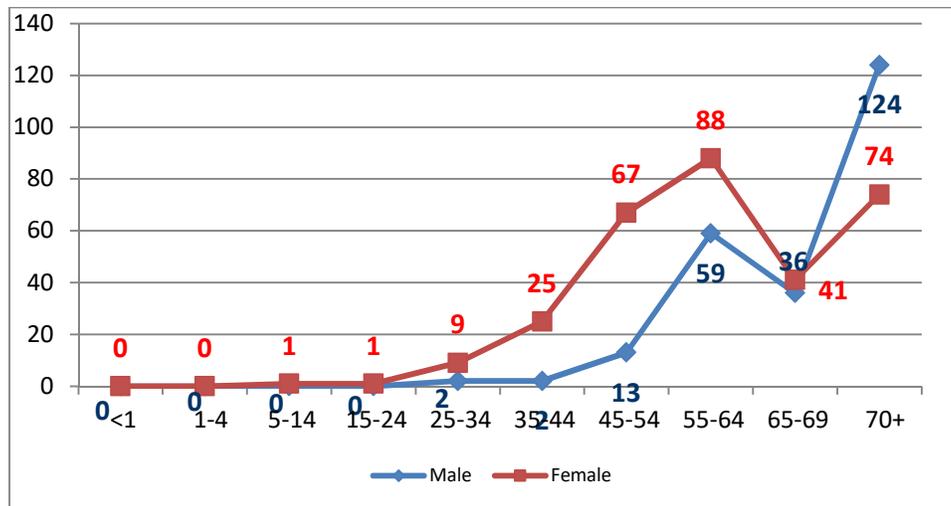
The sub group ‘Neoplasms of Genitourinary Organs’ is reported to be the next highest cause of deaths constituting 10.56% of the deaths due to ‘Neoplasm’. The percentage of female deaths due to ‘Neoplasms of Genitourinary Organs’ to total female neoplasm deaths is 14.96% as compared to 7.65 % of corresponding male neoplasm deaths.

Under the cause, ‘Malignant Neoplasms of Genitourinary Organs’, 30.81% is due to ‘Malignant Neoplasm of Ovary’. Under this group 21.22% of male neoplasm death is due to ‘Malignant Neoplasm of Prostate’ and 12.36% of male neoplasm death is due to ‘Malignant Neoplasm of Bladder’. Out of 542 deaths due to ‘Malignant Neoplasms of Genitourinary Organs’, 306 were female deaths (56.46%). The age distribution of medically certified deaths due to ‘Malignant Neoplasms of Genitourinary Organs’ has been highlighted in Table 2.18.

**Table 2.18: Age distribution of deaths due to ‘Malignant Neoplasms of Genitourinary Organs’**

Sl,No	Age Group	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	<1	0	0.00	0	0.00	0	0.00
2	1-4	0	0.00	0	0.00	0	0.00
3	5-14	0	0.00	1	0.33	1	0.18
4	15-24	0	0.00	1	0.33	1	0.18
5	25-34	2	0.85	9	2.94	11	2.03
6	35-44	2	0.85	25	8.17	27	4.98
7	45-54	13	5.51	67	21.90	80	14.76
8	55-64	59	25.00	88	28.76	147	27.12
9	65-69	36	15.25	41	13.40	77	14.21
10	70+	124	52.54	74	24.18	198	36.53
11	N.S.	0	0.00	0	0.00	0	0.00
<b>TOTAL</b>		<b>236</b>	<b>100</b>	<b>306</b>	<b>100</b>	<b>542</b>	<b>100</b>

**Chart 2.16: Age distribution of deaths due to ‘Malignant Neoplasms of Genitourinary Organs’**



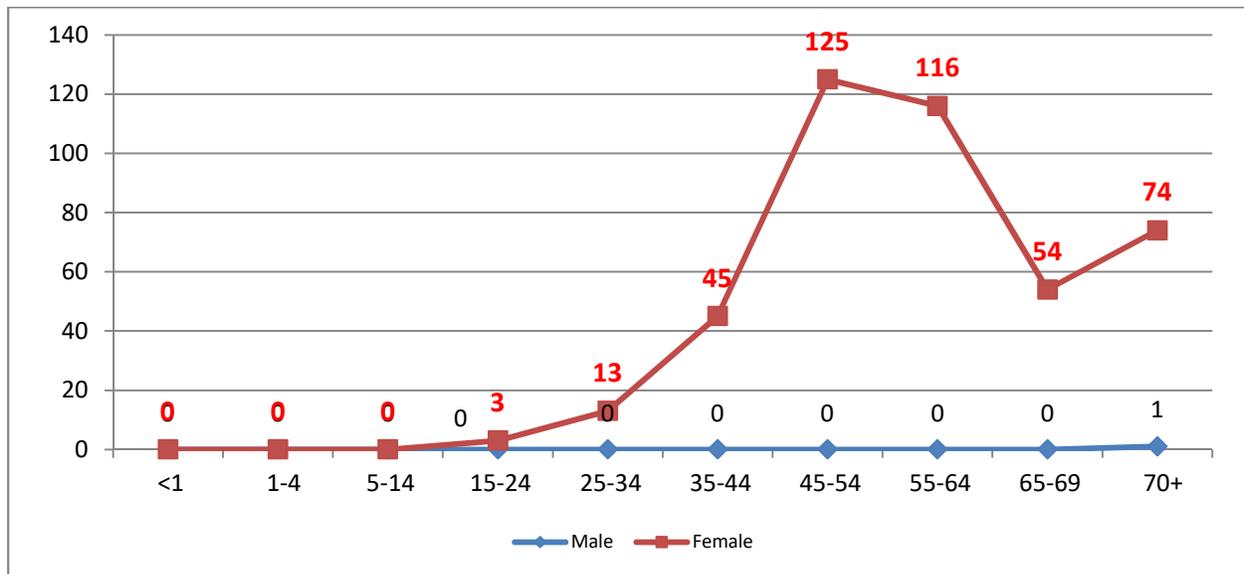
## 2.2.5 Malignant Neoplasms of Bone, Mesothelial and Soft Tissue, Skin and Breast

The sub group ‘Malignant Neoplasms of Bone, Mesothelial and Soft Tissue, Skin and Breast’ is reported to be the fifth highest cause of deaths constituting 10.66% of the ‘Neoplasm’ deaths. Among deaths caused by ‘Malignant neoplasms of bone, mesothelial and soft tissue, skin and breast’ about 78.98% is due to Breast Cancer in female. Breast Cancer alone accounts 21.11% of the total female Neoplasm death. Number of female death due to breast cancer is more in the age group ‘45-54’ (28.87%). The age distribution of medically certified deaths due to ‘Malignant neoplasm of Breast’ has been highlighted in Table 2.19.

**Table 2.19: Age distribution of deaths due to ‘Malignant Neoplasm of Breast’**

Sl.No	Age Group	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	<1	0	0.00	0	0.00	0	0.00
2	1-4	0	0.00	0	0.00	0	0.00
3	5-14	0	0.00	0	0.00	0	0.00
4	15-24	0	0.00	3	0.69	3	0.69
5	25-34	0	0.00	13	3.01	13	3.00
6	35-44	0	0.00	45	10.42	45	10.39
7	45-54	0	0.00	125	28.94	125	28.87
8	55-64	0	0.00	116	26.85	116	26.79
9	65-69	0	0.00	54	12.50	54	12.47
10	70+	1	0.24	74	17.13	75	17.32
11	N.S.	0	0.00	2	0.46	2	0.46
<b>TOTAL</b>		<b>1</b>	<b>0.24</b>	<b>432</b>	<b>99.76</b>	<b>433</b>	<b>100</b>

**Chart 2.17: Age distribution of deaths due to ‘Malignant Neoplasm of Breast’**



### 2.2.6 Malignant Neoplasms of Other and Unspecified Sites

Percentage of male deaths and female deaths under the cause, ‘Malignant neoplasm of other and unspecified sites’ are 46.77% and 53.23% respectively which constitute about 7.54% of the total Neoplasm deaths.

### 2.2.7 Malignant neoplasm of lip, oral cavity and pharynx

The percentage of male deaths and female deaths under the cause, ‘Malignant neoplasm of lip, oral cavity and pharynx’ are 76.78% and 23.22% respectively which is about 5.46% of the total Neoplasm deaths.

### 2.2.8 Other Neoplasms

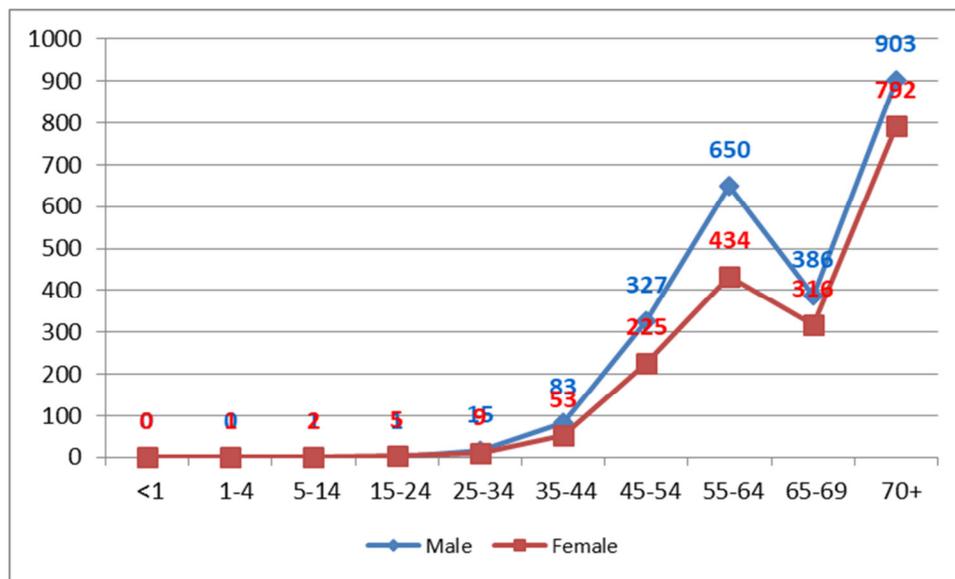
Under ‘Other Neoplasms’, the causes with ‘Malignant neoplasms of eye, brain and other parts of central nervous system’ 1.85%, ‘Benign neoplasms’ 1.09%, and ‘Other unspecified neoplasm’ 0.64% are reported under Medically Certified Deaths.

### 2.3. Endocrine, Nutritional and Metabolic Diseases (IV): (E00-E89)

This is the third leading cause group which has caused to 14.84% of the total Medically Certified Deaths. Diabetes Mellitus, Thyroid disorders, Malnutrition are the major cause under this group. ‘Diabetes Mellitus’, that causes serious health complications such as renal failures, heart disease, stroke and blindness, is a disease in which Pancreas no longer produces enough insulin or when cells stop responding to the insulin that is produced, so that glucose in the blood cannot be absorbed into the cells of the body. It alone accounts for 89.24% of total deaths reported under the cause group. Out of 4204 deaths due to ‘Diabetes Mellitus’, 2367 were males (56.30%). The share of diabetes mellitus in total Medically Certified Deaths is 13.24%.

This is the major cause of death due to Non Communicable Diseases. The age wise distribution of deaths under ‘Diabetes Mellitus’ is depicted in the Chart 2.18 and the age wise distribution of deaths under the group ‘‘Endocrine, Nutritional and Metabolic Diseases’ is depicted in the Table 2.20.

**Chart 2.18: Age & Sex wise distribution of deaths due to ‘Diabetes Mellitus’**



**Table 2.20: Age & Sex wise distribution of deaths due to ‘Endocrine, Nutritional and Metabolic Diseases’**

Sl.No	Age Group	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	<1	4	0.15	4	0.19	8	0.17
2	1-4	7	0.27	5	0.24	12	0.25
3	5-14	6	0.23	6	0.29	12	0.25
4	15-24	6	0.23	7	0.34	13	0.28
5	25-34	22	0.84	17	0.82	39	0.83
6	35-44	91	3.47	64	3.07	155	3.29
7	45-54	358	13.63	254	12.18	612	12.99
8	55-64	698	26.58	479	22.97	1177	24.98
9	65-69	412	15.69	341	16.35	753	15.98
10	70+	1022	38.92	908	43.55	1930	40.97
<b>TOTAL</b>		<b>2626</b>	<b>100</b>	<b>2085</b>	<b>100</b>	<b>4711</b>	<b>100</b>

## 2.4 Diseases of the Respiratory System (X): (J00-J98)

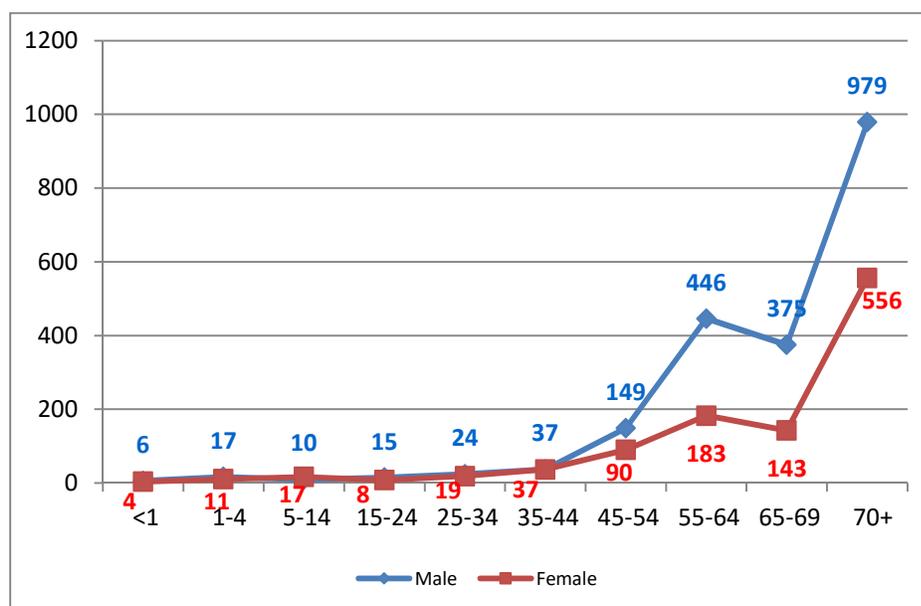
‘Diseases of Respiratory System’ is the fourth leading cause which responsible for 9.87% of the total Medically Certified Deaths. This is one of the main reasons for death among males. This has contributed to 10.62% of male and 8.68% of females of the respective total Medically Certified Deaths. Pneumonia and Chronic Obstructive Pulmonary Disease are the major underline cause of diseases under this category. The distribution of the major cause group is given Table 2.21.

**Table 2.21: Distribution of major causes of deaths among ‘Diseases of the Respiratory System’**

Sl.No	CAUSE OF DEATH	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	Diseases of the upper respiratory tract (J00-J06 & J30-J39)	2	0.10	0	0.00	2	0.06
2	Lower respiratory diseases ( J20-J22 & J40-J47)	1653	80.09	704	65.86	2357	75.23
3	Other diseases of the respiratory system (J10-J18,J60-J98)	409	19.82	365	34.14	774	24.70
Total Medically Certified Deaths due to Diseases of Respiratory System		<b>2064</b>	<b>100</b>	<b>1069</b>	<b>100</b>	<b>3133</b>	<b>100</b>
Deaths due to Diseases of Respiratory System as percentage to total medically certified deaths		<b>2064</b>	<b>10.62</b>	<b>1069</b>	<b>8.68</b>	<b>3133</b>	<b>9.87</b>

The death due to ‘Respiratory System Disease’ is more among the age group 0-4 and and decreases upto the age group ‘25- 34’. The maximum death reported from the age group 70+. The age composition of deaths due to ‘Diseases of Respiratory System’ is presented in Table 2.22 and is highlighted in Chart 2.19.

**Chart 2.19: Age & Sex wise distribution of deaths due to ‘Diseases of Respiratory System’**



**Table 2.22: Age & Sex wise distribution of deaths due to ‘Diseases of Respiratory System’**

Sl.No	Age Group	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	<1	6	0.29	4	0.37	10	0.32
2	1-4	17	0.82	11	1.03	28	0.89
3	5-14	10	0.48	17	1.59	27	0.86
4	15-24	15	0.73	8	0.75	23	0.73
5	25-34	24	1.16	19	1.78	43	1.37
6	35-44	37	1.79	37	3.46	74	2.36
7	45-54	149	7.22	90	8.42	239	7.63
8	55-64	446	21.61	183	17.12	629	20.08
9	65-69	375	18.17	143	13.38	518	16.53
10	70+	979	47.43	556	52.01	1535	48.99
11	N.S.	6	0.29	1	0.09	7	0.22
TOTAL		2064	100	1069	100	3133	100

‘Lower Respiratory disorders’ is the leading cause of death, and has caused 75.23% of total deaths under the major cause group ‘Diseases of Respiratory System’. Out of 3133 death happened in this group, 2064 were male (65.88%). Chronic Obstructive Pulmonary Disease (COPD) is the major cause, which is 72.42% of the death reported under ‘Respiratory System Disease’. The percentage share of Chronic Obstructive Pulmonary Disease (COPD) to the total Medically Certified Deaths is 7.15%. Less number of death is reported up to the age group 34 , deaths due to this underline cause increases with age and is significantly high ‘above 45’ and maximum death reported from the age group 70+. The age composition of deaths due to ‘Chronic Obstructive Pulmonary Disease (COPD)’ is presented in Table 2.23.

**Table 2.23: Age & Sex wise distribution of deaths due to ‘Chronic Obstructive Pulmonary Disease’**

Sl.No	Age Group	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	<1	0	0.00	0	0.00	0	0.00
2	1-4	1	0.05	0	0.00	1	0.03
3	5-14	1	0.05	1	0.09	2	0.06
4	15-24	3	0.15	1	0.09	4	0.13
5	25-34	7	0.34	7	0.65	14	0.45
6	35-44	11	0.53	13	1.22	24	0.77
7	45-54	98	4.75	51	4.77	149	4.76
8	55-64	365	17.68	106	9.92	471	15.03
9	65-69	317	15.36	95	8.89	412	13.15
10	70+	820	39.73	365	34.14	1185	37.82
11	N.S.	6	0.29	1	0.09	7	0.22
<b>TOTAL</b>		<b>1629</b>	<b>100</b>	<b>640</b>	<b>100</b>	<b>2269</b>	<b>100</b>

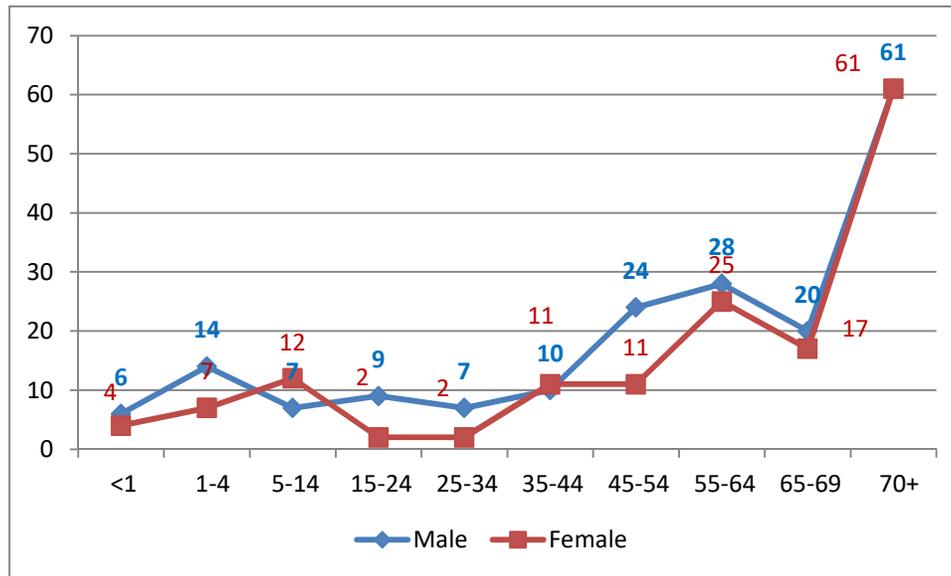
It is followed by ‘Other Diseases of the Respiratory System’ (24.70%), which includes ‘Pneumonia’ an inflammatory illness of the lung. ‘Pneumonia’ is one of the leading cause of death in this major group which about 10.79% of the deaths reported under ‘Respiratory System Disease’. The percentage share of Pneumonia to the total Medically Certified Deaths is 1.07%. It is one of the cause for death below 4 years age group. 31 deaths reported due to ‘Pneumonia’ for 0-4 age group in which 10 deaths are below one year. Deaths reported due to ‘Pneumonia’ for 0-4 age group is 9.17% of the total death due to same cause.

The death due to ‘Pneumonia’ increases upto the age group 0-14 and decreases up to the age group ‘15- 34’. The maximum death reported from the age group 70+. The age composition of deaths due to ‘Pneumonia’ is presented in Table 2.24 and is highlighted in Chart 2.20.

**Table 2.24: Age & Sex wise distribution of deaths due to ‘Pneumonia’**

Sl.No	Age Group	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	<1	6	3.23	4	2.63	10	2.96
2	1-4	14	7.53	7	4.61	21	6.21
3	5-14	7	3.76	12	7.89	19	5.62
4	15-24	9	4.84	2	1.32	11	3.25
5	25-34	7	3.76	2	1.32	9	2.66
6	35-44	10	5.38	11	7.24	21	6.21
7	45-54	24	12.90	11	7.24	35	10.36
8	55-64	28	15.05	25	16.45	53	15.68
9	65-69	20	10.75	17	11.18	37	10.95
10	70+	61	32.80	61	40.13	122	36.09
<b>TOTAL</b>		<b>186</b>	<b>100</b>	<b>152</b>	<b>100</b>	<b>338</b>	<b>100</b>

**Chart 2.20: Age & Sex wise distribution of deaths due to ‘Pneumonia’**



## 2.5 Diseases of the Genitourinary System (XIV): (N00-N99)

The major group comprising ‘Diseases of the Genitourinary System’ is the eighth leading cause group, responsible for 2.99% of the total Medically Certified Deaths with 3.07% of male and 2.86% of female deaths to their respective total Medically Certified Deaths. The percentage of male deaths to total death under this group is 62.87%.

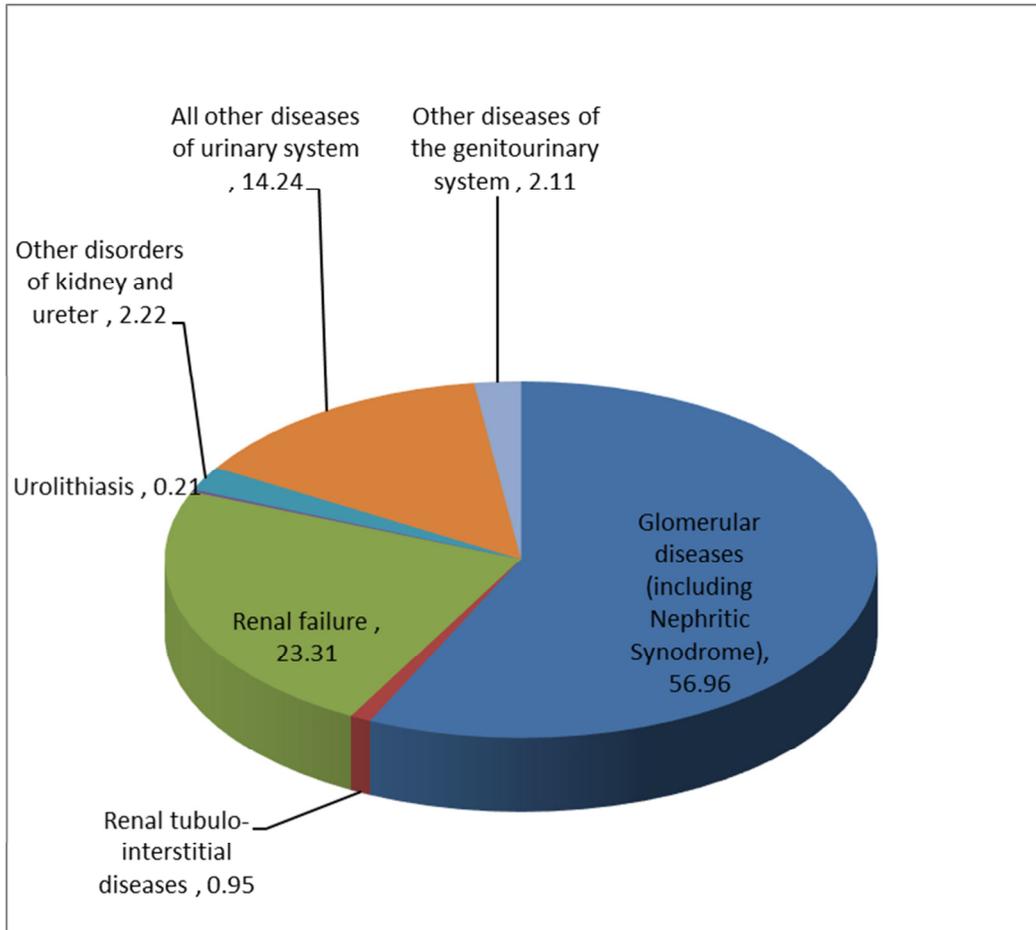
The distribution of major causes of deaths under this group is given in the Table 2.25 and highlighted in Chart 2.21. The leading cause under this category is due to ‘Glomerular Diseases(including Nephritic Syndrome) (56.96%)’. Out of 540 deaths due to ‘Glomerular Diseases’, 358 were males (66.30%). Glomerular disease reduces the ability of the kidneys to maintain a balance of certain substances in bloodstream. In people with glomerular disease, red blood cells and protein may be excreted into the urine, while toxins may be retained.

The second leading cause under this cause group is Renal Failure. 23.31% of death is due to Renal Failure. Out of 221 deaths reported due to ‘Renal Failure’, 145 were males (65.61%).

**Table 2.25: Distribution of major causes of deaths among ‘Diseases of the Genitourinary System’**

Sl.No	CAUSE OF DEATH	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	Glomerular diseases (including Nephritic Synodrome)	358	60.07	182	51.70	540	56.96
2	Renal failure	145	24.33	76	21.59	221	23.31
3	All other diseases of urinary system	57	9.56	78	22.16	135	14.24
4	Other disorders of kidney and ureter	15	2.52	6	1.70	21	2.22
5	Renal tubulo-interstitial diseases	6	1.01	3	0.85	9	0.95
6	Other diseases of the genitourinary system	14	2.35	6	1.70	20	2.11
7	Urolithiasis	1	0.17	1	0.28	2	0.21
Total Medically Certified Deaths due to DISEASES OF THE GENITOURINARY SYSTEM		<b>596</b>	<b>100</b>	<b>352</b>	<b>100</b>	<b>948</b>	<b>100</b>
Deaths due to DISEASES OF THE GENITOURINARY SYSTEM as percentage to total medically certified deaths		<b>596</b>	<b>3.07</b>	<b>352</b>	<b>2.86</b>	<b>948</b>	<b>2.99</b>

**Chart 2.21: Distribution of major causes of deaths among ‘Diseases of the Genitourinary System’**

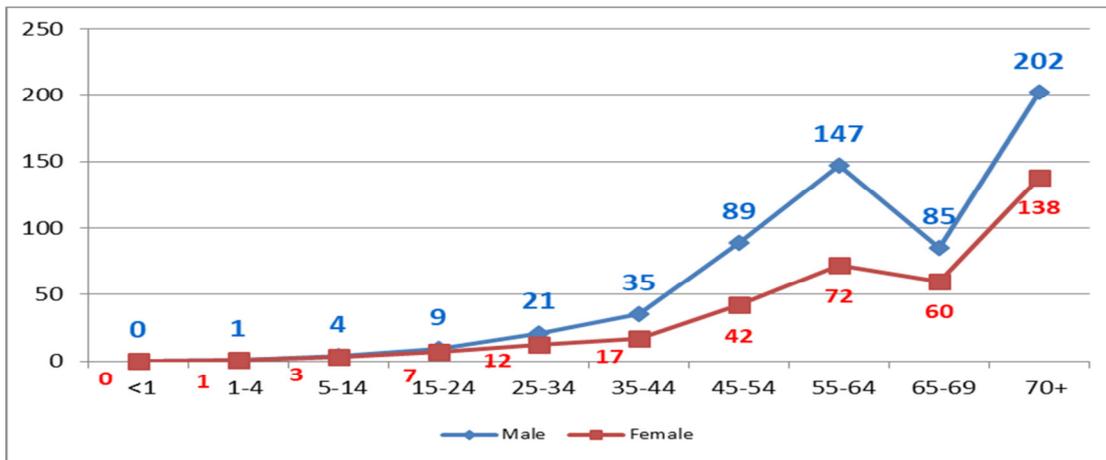


The age wise distribution of death among ‘Diseases of the Genitourinary System’ is shown below. Deaths due to this underline cause increases with age and is significantly high ‘above 45’. Above the age 45 the deaths reported are 88.08% of the total death under the group.

**Table 2.26: Age & Sex wise distribution of major causes of deaths among ‘Diseases of the Genitourinary System’**

Sl.No	Age Group	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	<1	0	0.00	0	0.00	0	0.00
2	1-4	1	0.17	1	0.28	2	0.21
3	5-14	4	0.67	3	0.85	7	0.74
4	15-24	9	1.51	7	1.99	16	1.69
5	25-34	21	3.52	12	3.41	33	3.48
6	35-44	35	5.87	17	4.83	52	5.49
7	45-54	89	14.93	42	11.93	131	13.82
8	55-64	147	24.66	72	20.45	219	23.10
9	65-69	85	14.26	60	17.05	145	15.30
10	70+	202	33.89	138	39.20	340	35.86
11	N.S.	3	0.50	0	0.00	3	0.32
<b>TOTAL</b>		<b>596</b>	<b>100</b>	<b>352</b>	<b>100</b>	<b>948</b>	<b>100</b>

**Chart 2.22: Age & Sex wise distribution of major causes of deaths among ‘Diseases of the Genitourinary System’**



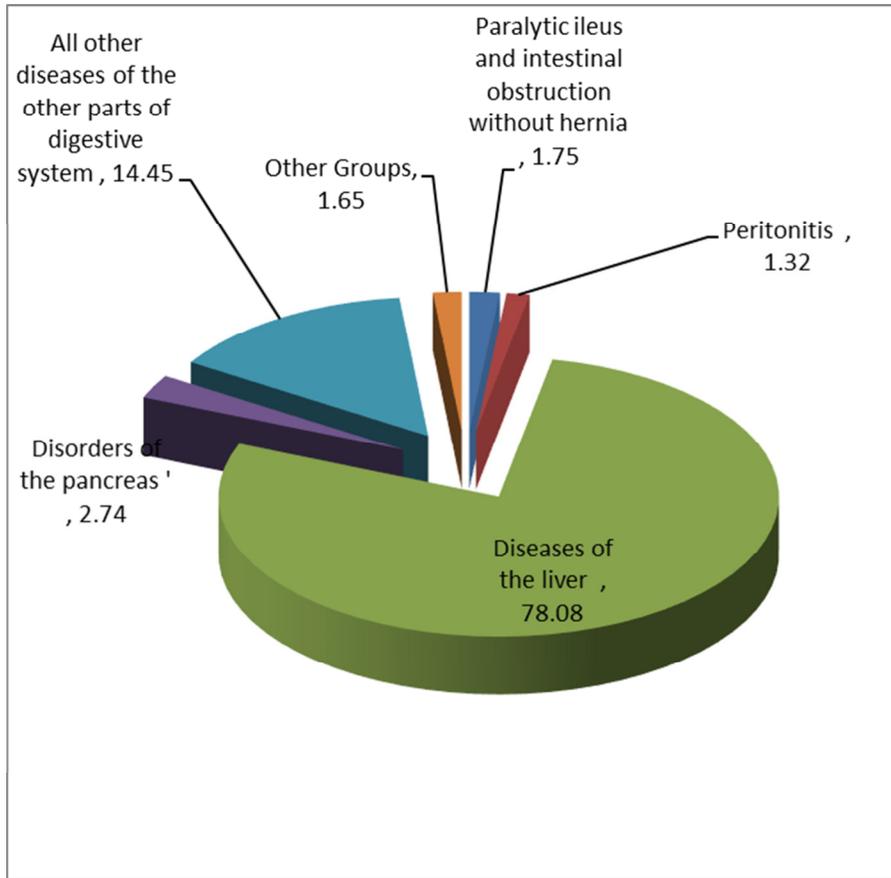
## 2.5 Diseases of the Digestive System (XI): (K00-K92)

‘Diseases of Digestive system’ is the fifth leading cause group, responsible for 6.67% of the total Medically Certified Deaths with 8.31% of male and 4.17% of female deaths of the respective total Medically Certified Deaths. The percentage of male digestive disorder deaths to total Medically Certified Deaths is more than three times to that of corresponding female deaths. 76.33% of deaths under this category were males. The major cause of death in this group is ‘Diseases of the Liver’. The distribution of major causes of deaths under this group is given in the Table 2.27 and is in Chart 2.23.

**Table 2.27: Distribution of major causes of deaths due to ‘Diseases of Digestive System’**

Sl.No	CAUSE OF DEATH	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	Paralytic ileus and intestinal obstruction without hernia	23	1.42	14	2.79	37	1.75
2	Peritonitis	17	1.05	11	2.20	28	1.32
3	Diseases of the liver	1309	81.00	344	68.66	1653	78.08
4	Disorders of the pancreas '	45	2.78	13	2.59	58	2.74
5	All other diseases of the other parts of digestive system	197	12.19	109	21.76	306	14.45
6	Other Groups	25	1.55	10	2.00	35	1.65
Total Medically Certified Deaths due to digestive system		1616	100	501	100	2117	100

**Chart 2.23: Distribution of major causes of deaths due to ‘Diseases of Digestive System’**

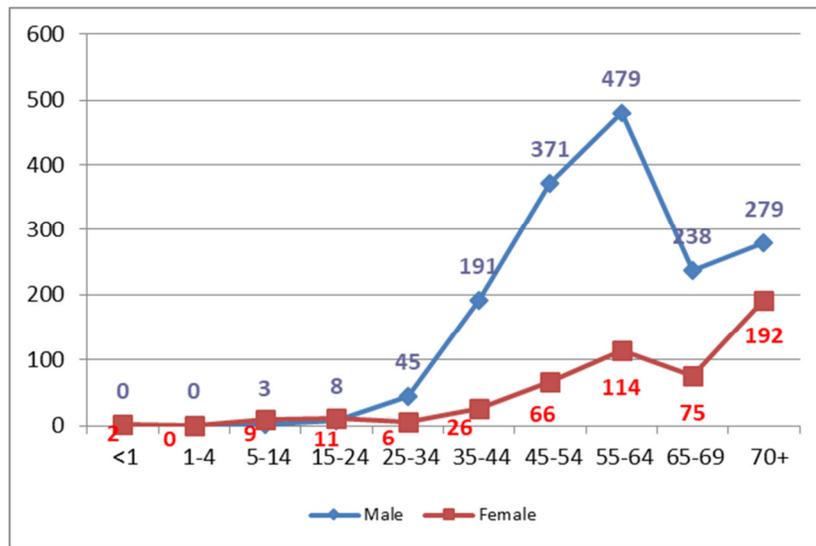


Comparatively less number of deaths occurred below the age 25 for male and female. It shows a upward trend in death rate for males with respect to age above 25 and more. As revealed from the Table 2.24, the number of deaths are more for the age group ‘45-54’ and ‘55-64’. The age composition of deaths due to ‘Diseases of Digestive system’ is presented in Table 2.28 and is highlighted in Chart 2.24.

**Table 2.28: Age & Sex wise distribution of deaths due to ‘Diseases of Digestive System’ .**

Sl.No	Age Group	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	<1	0	0.00	2	0.40	2	0.09
2	1-4	0	0.00	0	0.00	0	0.00
3	5-14	3	0.19	9	1.80	12	0.57
4	15-24	8	0.50	11	2.20	19	0.90
5	25-34	45	2.78	6	1.20	51	2.41
6	35-44	191	11.82	26	5.19	217	10.25
7	45-54	371	22.96	66	13.17	437	20.64
8	55-64	479	29.64	114	22.75	593	28.01
9	65-69	238	14.73	75	14.97	313	14.79
10	70+	279	17.26	192	38.32	471	22.25
11	N.S.	2	0.12	0	0.00	2	0.09
TOTAL		1616	100	501	100	2117	100

**Chart 2.24: Age & Sex wise distribution of deaths due to ‘Diseases of Digestive System.’**



## 2.6.1 Diseases of the liver

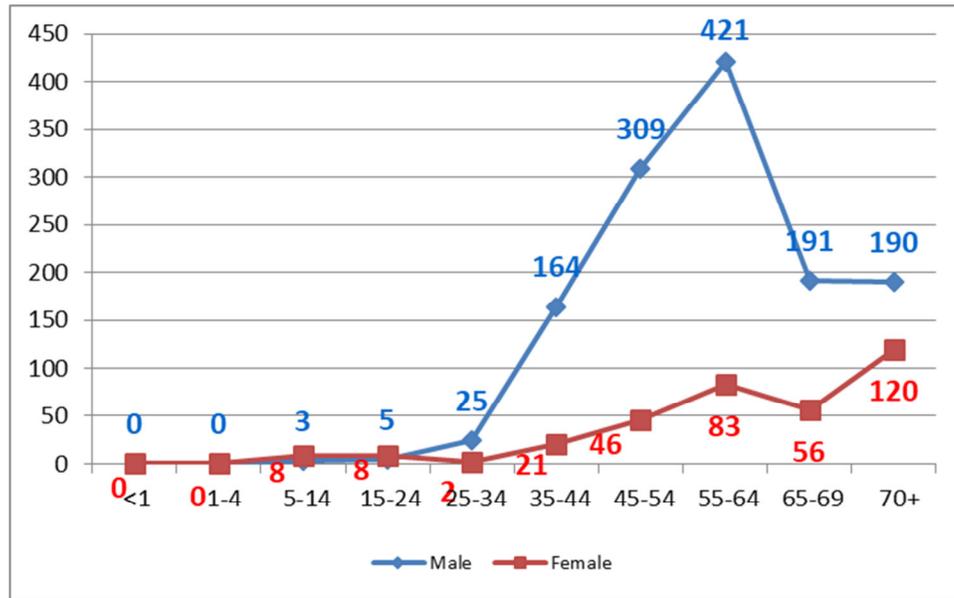
78.08% of cause under ‘Diseases of Digestive System’ is ‘Diseases of the liver’. Out of 1653 death reported due to ‘Diseases of the liver’, 1309 were males (79.18%). The male deaths due to ‘Diseases of the liver’, is 4.12% of the total medically certified deaths, and 6.73% of total medically certified male deaths.

The age wise distribution of death due to disease of liver is shown in Table 2.29. Up to the age group of 0-35, the number of death of male and female does’nt have much difference , and then shows huge difference in deaths from the ‘35 and above’ age. 85.66% of male deaths was reported in the age 45 and above age group. This is highlighted in Chart 2.25.

Table 2.29: Age & Sex wise distribution of death due to ‘Diseases of the liver’

Sl.No	Age Group	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	<1	0	0.00	0	0.00	0	0.00
2	1-4	0	0.00	0	0.00	0	0.00
3	5-14	3	0.23	8	2.33	11	0.67
4	15-24	5	0.38	8	2.33	13	0.79
5	25-34	25	1.91	2	0.58	27	1.63
6	35-44	164	12.53	21	6.10	185	11.19
7	45-54	309	23.61	46	13.37	355	21.48
8	55-64	421	32.16	83	24.13	504	30.49
9	65-69	191	14.59	56	16.28	247	14.94
10	70+	190	14.51	120	34.88	310	18.75
11	N.S.	1	0.08	0	0.00	1	0.06
TOTAL		1309	100	344	100	1653	100

**Chart 2.25: Age & Sex wise distribution of death due to ‘Diseases of the liver’**



## 2.7 Injury Poisoning and Certain other Consequences of External Causes (XIX): (S00-T98)

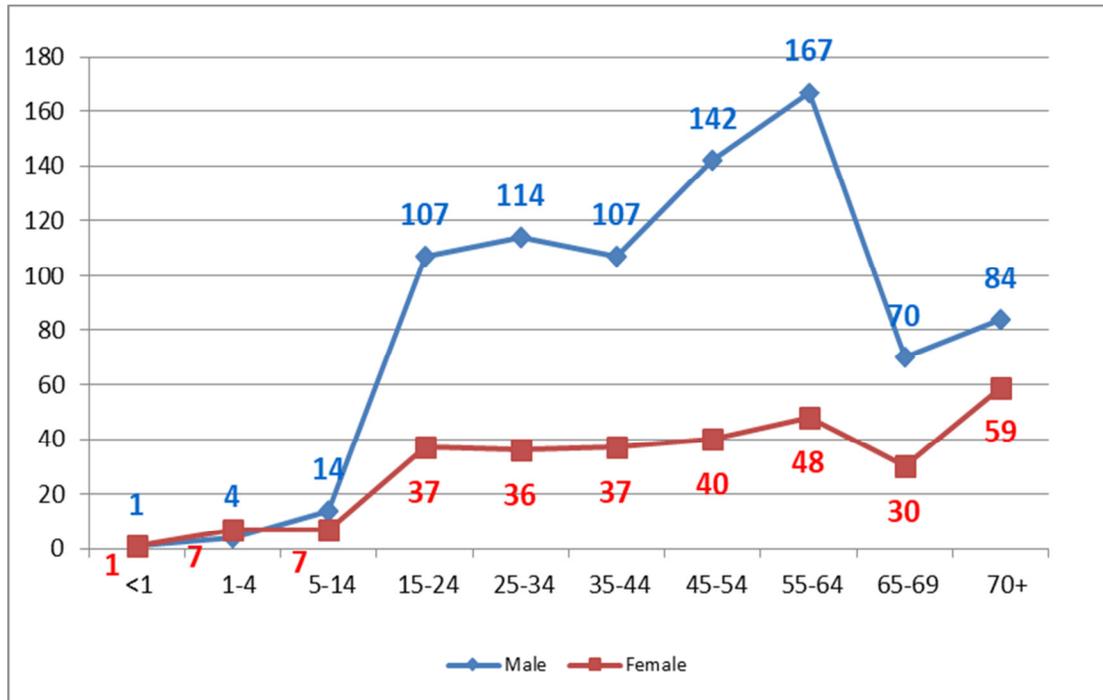
The external causes like Road Accidents, Suicides, Falls, Burns and Corrosions, Snake Bite, and Violence are the main reason for the death under ‘Injury Poisoning and Certain other Consequences of External Causes’. It is the seventh leading cause group responsible for 3.51% of total Medically Certified Deaths.

Under this cause group ‘Fractures, Other injuries of specified, unspecified and multiple body regions, Intracranial and internal injuries, including nerves’ alone have contributed to 65.68% of the total deaths, this is followed by ‘Burns and Corrosions’ (12.67%) and ‘Poisonings by drugs and biological substances and toxic effects of substances chiefly non-medicinal as to source’ (9.70%). Death due to *Burns and Corrosions* among *females* is 66.67% as compared to 33.33% among *males*, under this major group. The distribution of chief constituents of the major cause group is given in the Table 2.30. Age distribution of deaths due to ‘Injury, Poisoning and Certain Other Consequences of External Causes’ and is depicted in Chart 2.26.

**Table 2.30: Distribution of major causes of deaths among ‘Injury, Poisoning and Certain Other Consequences of External Causes’**

Sl.No	CAUSE OF DEATH	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	Fractures, Other injuries of specified,unspecified and multiple body regions , Intracranial and internal injuries, including nerves	596	73.49	135	44.70	731	65.68
2	Poisonings by drugs & biological substances; and Toxic effects of substances chiefly nonmedicinal as to source	82	10.11	26	8.61	108	9.70
4	Burns and Corrosions	47	5.80	94	31.13	141	12.67
6	Late effects of injuries, of poisoning and of other consequences of external causes	22	2.71	5	1.66	27	2.43
7	Other and unspecified effects of external causes and certain early complications of trauma	32	3.95	17	5.63	49	4.40
8	Complications of Surgical and Medical care, not elsewhere classified	29	3.58	24	7.95	53	4.76
9	Other Groups	3	0.37	1	0.33	4	0.36
Total Medically Certified Deaths due to INJURY, POISONING AND CERTAIN OTHER CONSEQUENCES OF EXTERNAL CAUSES		<b>811</b>	<b>100</b>	<b>302</b>	<b>100</b>	<b>1113</b>	<b>100</b>

**Chart 2.26: Age & Sex wise distribution of deaths due to ‘Injury, Poisoning and Certain Other Consequences of External Causes’**



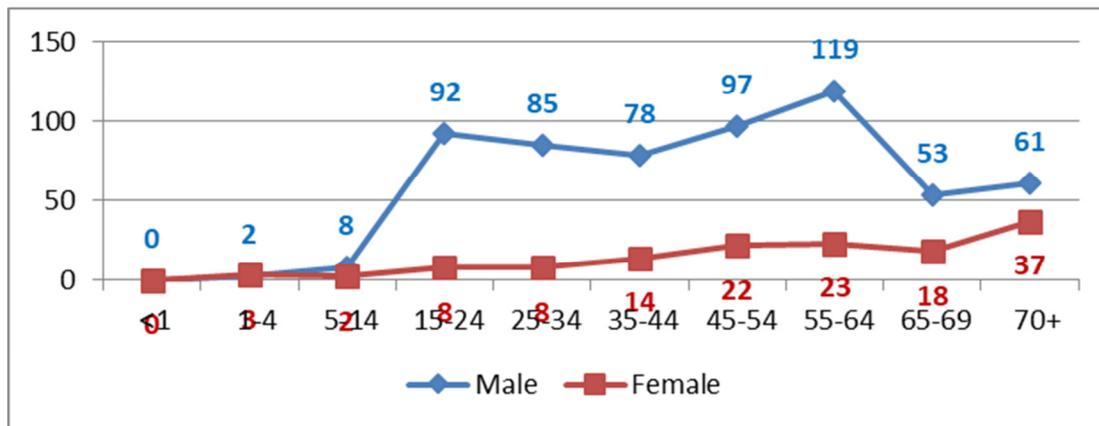
### 2.7.1 Fractures, other injuries of specified, unspecified and multiple body regions, Intracranial and internal injuries, including nerves

The external causes like ‘Road Accidents, Suicides and Falls’, are the main reason for the death under the cause ‘Fractures, other injuries of specified, unspecified and multiple body regions, Intracranial and internal injuries, including nerves’. 81.53% of the deaths under the external cause are males. That is almost four out of five deaths are males. Less number of deaths occurred below 14 years. Out of 100 deaths occurred in the age group ‘15-24’, which is 13.68% of the death occurred due to ‘Fractures, other injuries of specified, unspecified and multiple body regions, Intracranial and internal injuries, including nerves’, 92 are males (92.00%). More than 75% death occurred in 15-64 years age group. The age wise distribution of deaths under this cause are given in Table 2.31 and depicted in Chart 2.27.

**Table 2.31: Age & Sex wise distribution of deaths due to 'Fractures, other injuries of specified, unspecified and multiple body regions, Intracranial and internal injuries, including nerves'**

Sl.No	Age Group	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	<1	0	0.00	0	0.00	0	0.00
2	1-4	2	0.34	3	2.22	5	0.68
3	5-14	8	1.34	2	1.48	10	1.37
4	15-24	92	15.44	8	5.93	100	13.68
5	25-34	85	14.26	8	5.93	93	12.72
6	35-44	78	13.09	14	10.37	92	12.59
7	45-54	97	16.28	22	16.30	119	16.28
8	55-64	119	19.97	23	17.04	142	19.43
9	65-69	53	8.89	18	13.33	71	9.71
10	70+	61	10.23	37	27.41	98	13.41
11	N.S.	1	0.17	0	0.00	1	0.14
TOTAL		596	100	135	100	731	100

**Chart 2.27: Age & Sex wise distribution of deaths due to 'Fractures, Other injuries of specified, unspecified and multiple body regions, Intracranial and internal injuries, including nerves'**



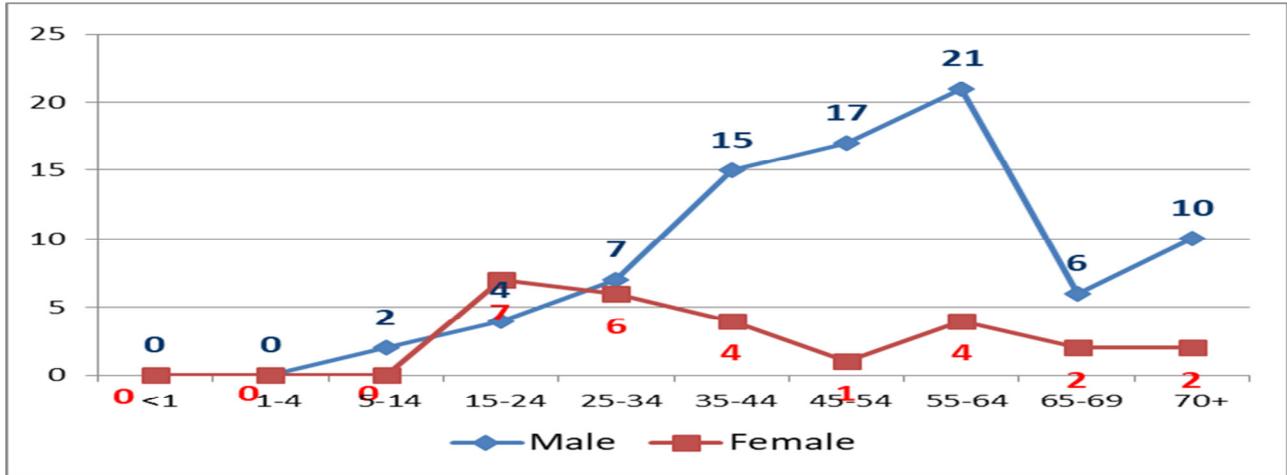
## 2.7.2 Poisonings by drugs & biological substances; and Toxic effects of substances chiefly non-medicinal as to source

The external causes like ‘Suicides and Accidents’ are the main reason for the death under this category. Suicides due to poisons, insecticides, acids, medicines and biological substances come under this category. 75.93% of deaths under this cause are from males. Maximum deaths are in the age group ‘55-64’. Maximum number of female death happened in the age group ‘15-24’ (26.92%) and for males it is ‘55-64’ age group (25.61%). Under the age group ‘25-64’, the percentage of male death is 73.17%.

**Table 2.32: Age & Sex wise distribution of deaths due to ‘Poisonings by drugs & biological substances; and Toxic effects of substances chiefly non medicinal as to source’**

Sl.No	Age Group	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	<1	0	0.00	0	0.00	0	0.00
2	1-4	0	0.00	0	0.00	0	0.00
3	5-14	2	2.44	0	0.00	2	1.85
4	15-24	4	4.88	7	26.92	11	10.19
5	25-34	7	8.54	6	23.08	13	12.04
6	35-44	15	18.29	4	15.38	19	17.59
7	45-54	17	20.73	1	3.85	18	16.67
8	55-64	21	25.61	4	15.38	25	23.15
9	65-69	6	7.32	2	7.69	8	7.41
10	70+	10	12.20	2	7.69	12	11.11
11	N.S.	0	0.00	0	0.00	0	0.00
TOTAL		82	100	26	100	108	100

**Chart 2.28: Age & Sex wise distribution of deaths due to ‘Poisonings by drugs & biological substances; and Toxic effects of substances chiefly nonmedical as to source’**



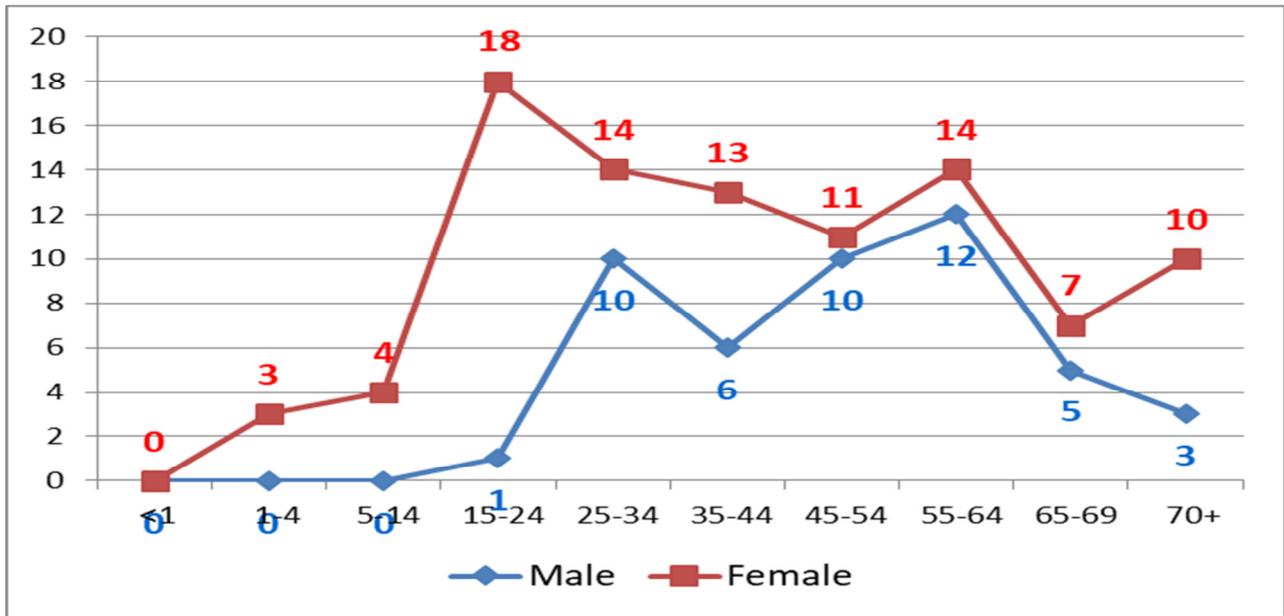
### 2.7.3 Burns and Corrosions

The external causes like Suicides and Accidents are the main reason for the death under ‘Burns and Corrosions’. Under the cause 66.70% were female deaths, one of the cause group where deaths of females are more than that of males. 74.47% of the female deaths due to this cause are in the age group ‘15-64’. Maximum female deaths were reported in the age group ‘25-44’ (44.87%).

**Table 2.33: Age & Sex wise distribution of deaths due to ‘Burns and Corrosions’**

Sl,No	Age Group	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	<1	0	0.00	0	0.00	0	0.00
2	1-4	0	0.00	3	3.19	3	2.13
3	5-14	0	0.00	4	4.26	4	2.84
4	15-24	1	2.13	18	19.15	19	13.48
5	25-34	10	21.28	14	14.89	24	17.02
6	35-44	6	12.77	13	13.83	19	13.48
7	45-54	10	21.28	11	11.70	21	14.89
8	55-64	12	25.53	14	14.89	26	18.44
9	65-69	5	10.64	7	7.45	12	8.51
10	70+	3	6.38	10	10.64	13	9.22
<b>TOTAL</b>		<b>47</b>	<b>100</b>	<b>94</b>	<b>100</b>	<b>141</b>	<b>100</b>

**Chart 2.29: Age & Sex wise distribution of deaths due to ‘Burns and Corrosions’**



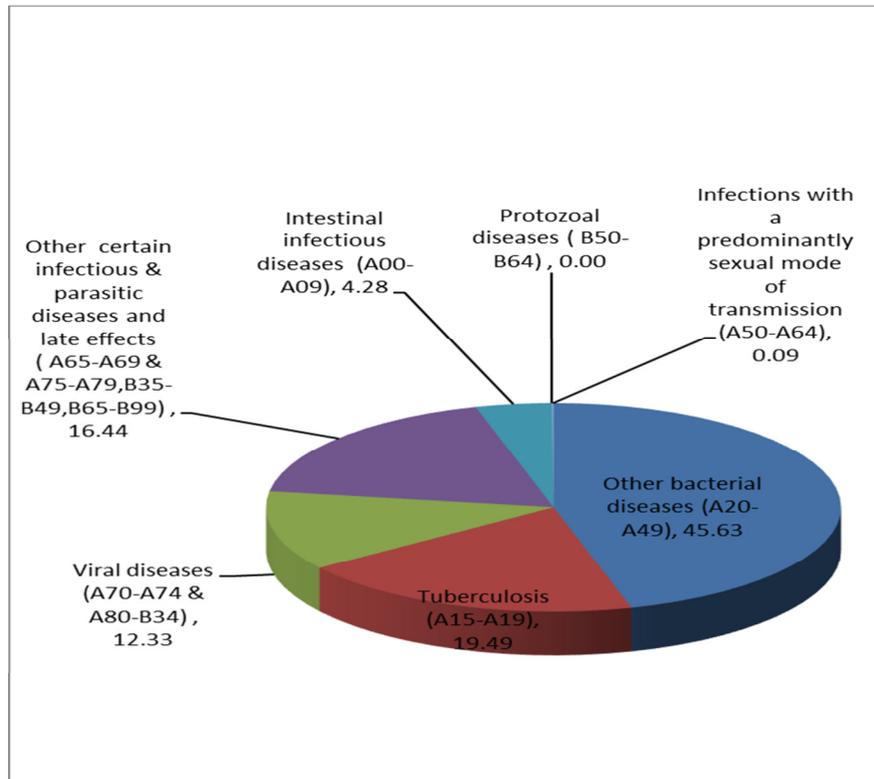
## 2.6 Certain Infectious and Parasitic Diseases (I): (A00-B99)

It is the sixth leading cause group of disease accounting for 3.60% of total Medically Certified Deaths, which constitute 3.75% of male and 3.37% of female medically certified deaths of their respective totals. Tuberculosis, Diarrhoea, Septicaemia, Human Immunodeficiency Virus [HIV] disease and Hepatitis are the major causes under this group. Around 37.67% of death under this group is due to Septicaemia and 19.49% is due to Tuberculosis. Out of 141 deaths occurred under the group ‘Viral Diseases’, 21 were due to ‘Dengue fever’ and 54 were due to ‘Human immunodeficiency virus [HIV] disease’. The distribution of major components under this cause group is shown in the Table 2.34 and is depicted in Chart 2.30.

**Table 2.34: Distribution of major causes of deaths among ‘Certain Infectious and Parasitic Diseases’.**

Sl.No	CAUSE OF DEATH	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	Other bacterial diseases (A20-A49)	325	44.58	197	47.47	522	45.63
2	Tuberculosis (A15-A19)	149	20.44	74	17.83	223	19.49
3	Viral diseases (A70-A74 & A80-B34)	90	12.35	51	12.29	141	12.33
4	Other certain infectious & parasitic diseases and late effects of infectious & parasitic diseases ( A65-A69 & A75-A79,B35-B49,B65-B99)	143	19.62	65	15.66	208	18.18
5	Intestinal infectious diseases (A00-A09)	21	2.88	28	6.75	49	4.28
6	Protozoal diseases ( B50-B64)	0	0.00	0	0.00	0	0.00
7	Infections with a predominantly sexual mode of transmission (A50-A64)	1	0.14	0	0.00	1	0.09
<b>Total Medically Certified Deaths due to Certain Infectious and Parasitic Diseases</b>		<b>729</b>	<b>100</b>	<b>415</b>	<b>100</b>	<b>1144</b>	<b>100</b>
Deaths due to Certain Infectious and Parasitic Diseases as percentage to total medically certified deaths		<b>729</b>	<b>3.75</b>	<b>415</b>	<b>3.37</b>	<b>1144</b>	<b>3.60</b>

**Chart 2.30: Percentage distribution of medically certified deaths due to ‘Certain Infectious & Parasitic Diseases’.**

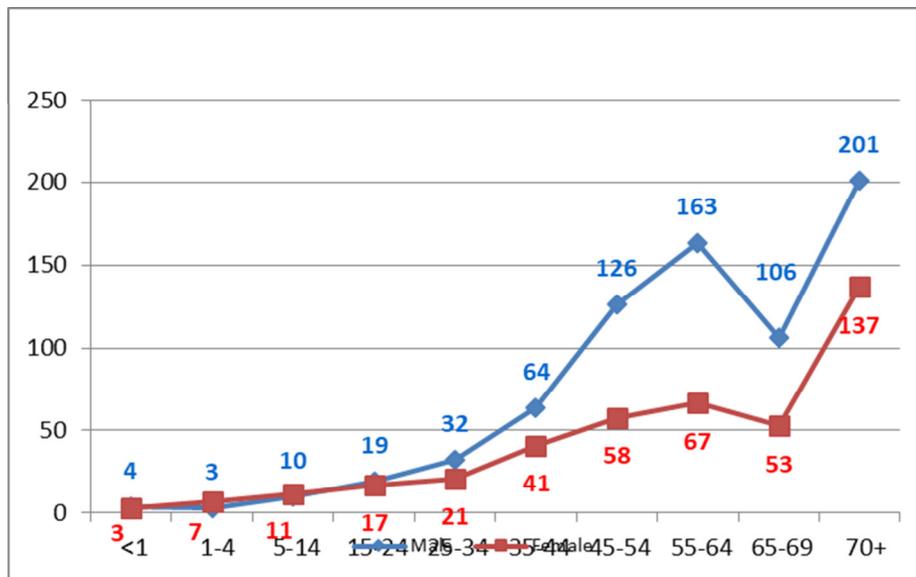


The age and sex wise distribution of medically certified deaths due to ‘Certain Infectious and Parasitic Diseases’ has been given below in Table 2.35 and is presented in Chart 2.31.

**Table 2.35: Age & Sex wise distribution of deaths due to ‘Certain Infectious and Parasitic Diseases’**

Sl.No	Age Group	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	<1	4	0.55	3	0.72	7	0.61
2	1-4	3	0.41	7	1.69	10	0.87
3	5-14	10	1.37	11	2.65	21	1.84
4	15-24	19	2.61	17	4.10	36	3.15
5	25-34	32	4.39	21	5.06	53	4.63
6	35-44	64	8.78	41	9.88	105	9.18
7	45-54	126	17.28	58	13.98	184	16.08
8	55-64	163	22.36	67	16.14	230	20.10
9	65-69	106	14.54	53	12.77	159	13.90
10	70+	201	27.57	137	33.01	338	29.55
11	N.S.	1	0.14	0	0.00	1	0.09
TOTAL		729	100	415	100	1144	100

**Chart 2.31: Age & Sex wise distribution of deaths due to ‘Certain Infectious & Parasitic Diseases’**



### 2.6.1 Septicaemia.

Among ‘Certain Infectious and Parasitic Diseases’, the group ‘Other bacterial diseases’ is the highest reported medically certified cause of mortality, constituting around 45.63% in which 82.57% is due to ‘Septicaemia’. 1.37% of total Medically Certified Death is due to ‘Septicaemia’. Out of 431 deaths reported under ‘Septicaemia’, 255 were male (59.16%). Maximum deaths were reported in the age group ‘55-64’ and 70+. This is given below in Table 2.36.

**Table 2.36: Age & Sex wise distribution of death due to ‘Septicaemia’**

Sl.No	Age Group	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	<1	0	0.00	0	0.00	0	0.00
2	1-4	0	0.00	0	0.00	0	0.00
3	5-14	3	1.18	2	1.14	5	1.16
4	15-24	6	2.35	6	3.41	12	2.78
5	25-34	10	3.92	7	3.98	17	3.94
6	35-44	16	6.27	17	9.66	33	7.66
7	45-54	41	16.08	15	8.52	56	12.99
8	55-64	56	21.96	28	15.91	84	19.49
9	65-69	38	14.90	26	14.77	64	14.85
10	70+	85	33.33	75	42.61	160	37.12
11	N.S.	0	0.00	0	0.00	0	0.00
<b>TOTAL</b>		<b>255</b>	<b>100</b>	<b>176</b>	<b>100</b>	<b>431</b>	<b>100</b>

## **2.6.2 Tuberculosis**

Among ‘Certain Infectious and Parasitic Diseases’, the group ‘Tuberculosis’ is the second highest reported medically certified cause of mortality, constituting around 19.49% in which, 74.44% is due to ‘Respiratory Tuberculosis’. ‘Respiratory Tuberculosis’ deaths in males are 71.08% as against 28.92% of females.

## **2.6.3 Human Immunodeficiency Virus [HIV]**

12.33% of death under the group ‘Certain Infectious and Parasitic Diseases’ is due to ‘Viral diseases’. In the group ‘Viral diseases’, ‘Human Immunodeficiency Virus [HIV]’ (38.30%), ‘Dengue fever’ (14.89%), ‘Other viral encephalitis’ (7.80%), ‘Acute Hepatitis B’ (0.64%), and ‘Other viral hepatitis’ (12.06%) are the major causes.

Under the group ‘Viral diseases’, Human Immunodeficiency Virus [HIV] disease causes 38.30% of deaths. Out of 54 deaths under HIV, 30 were males (55.56%). More deaths were reported in the age group ‘35-54’ (64.81%). Age wise distribution of death due to ‘Human Immunodeficiency Virus [HIV]’ has been given below in Table 2.37.

**Table 2.37: Age & Sex wise distribution of death due to ‘Human Immunodeficiency Virus [HIV]’**

Sl.No	Age Group	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	<1	0	0.00	0	0.00	0	0.00
2	1-4	0	0.00	0	0.00	0	0.00
3	5-14	0	0.00	0	0.00	0	0.00
4	15-24	0	0.00	1	4.17	1	1.85
5	25-34	1	3.33	5	20.83	6	11.11
6	35-44	6	20.00	4	16.67	10	18.52
7	45-54	15	50.00	10	41.67	25	46.30
8	55-64	7	23.33	2	8.33	9	16.67
9	65-69	0	0.00	1	4.17	1	1.85
10	70+	1	3.33	1	4.17	2	3.70
11	NS	0	0	0.00	0	0.00	0
TOTAL		30	100	24	100	54	100

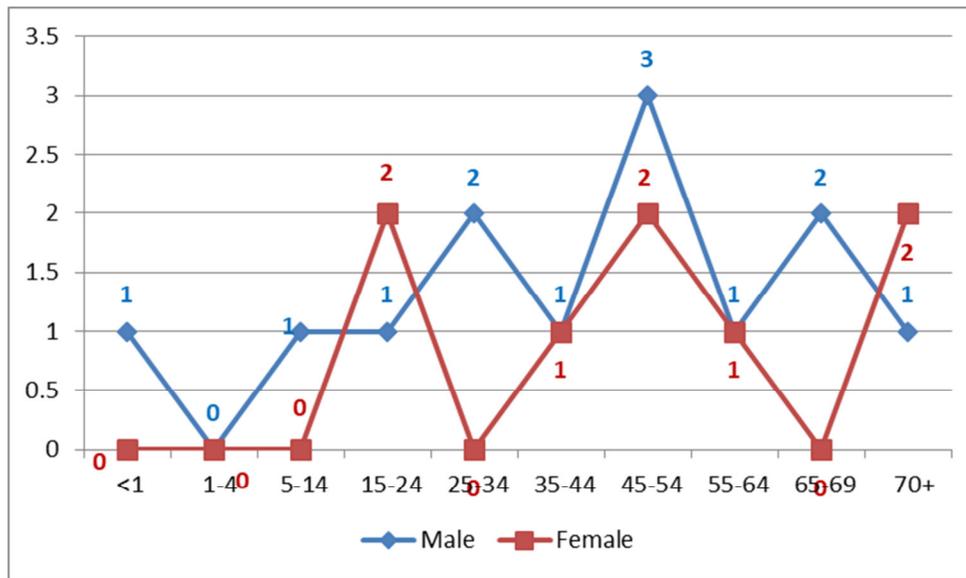
### 2.6.4 Dengue fever

Out of the Viral Hepatitis deaths, second highest death is due to ‘Dengue fever’. Out of 21 deaths under Dengue fever, 13 were males (61.90%). The age wise distribution of deaths due to ‘Dengue fever’ is shown in Table 2.38 and is presented in chart 2.32.

**Table 2.38: Age & Sex wise distribution of death due to ‘Dengue fever’**

Sl.No	Age Group	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	<1	1	7.69	0	0.00	1	4.76
2	1-4	0	0.00	0	0.00	0	0.00
3	5-14	1	7.69	0	0.00	1	4.76
4	15-24	1	7.69	2	25.00	3	14.29
5	25-34	2	15.38	0	0.00	2	9.52
6	35-44	1	7.69	1	12.50	2	9.52
7	45-54	3	23.08	2	25.00	5	23.81
8	55-64	1	7.69	1	12.50	2	9.52
9	65-69	2	15.38	0	0.00	2	9.52
10	70+	1	7.69	2	25.00	3	14.29
TOTAL		13	100	8	100	21	100

**Chart 2.32: Age & Sex wise distribution of death due to ‘Dengue fever’**



### 2.6.4 Hepatitis B

Out of the ‘Viral Hepatitis’ deaths, another important cause is due to Hepatitis B. Total 14 deaths reported due to this cause. The age wise distribution of deaths due to Hepatitis B is

given below. 87.5% of deaths were males. No death reported below 15 years. 81.25% of deaths reported in the age group '25-64'. This is shown in Table 2.39.

**Table 2.39: Age & Sex wise distribution of death due to 'Hepatitis B'**

Sl.No	Age Group	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
1	<1	0	0.00	0	0.00	0	0.00
2	1-4	0	0.00	0	0.00	0	0.00
3	5-14	0	0.00	0	0.00	0	0.00
4	15-24	0	0.00	0	0.00	0	0.00
5	25-34	2	16.67	0	0.00	2	13.33
6	35-44	3	25.00	0	0.00	3	20.00
7	45-54	4	33.33	1	33.33	5	33.33
8	55-64	2	16.67	1	33.33	3	20.00
9	65-69	0	0.00	0	0.00	0	0.00
10	70+	1	8.33	1	33.33	2	13.33
11	N.S.	0	0.00	0	0.00	0	0.00
TOTAL		12	100	3	100	15	100

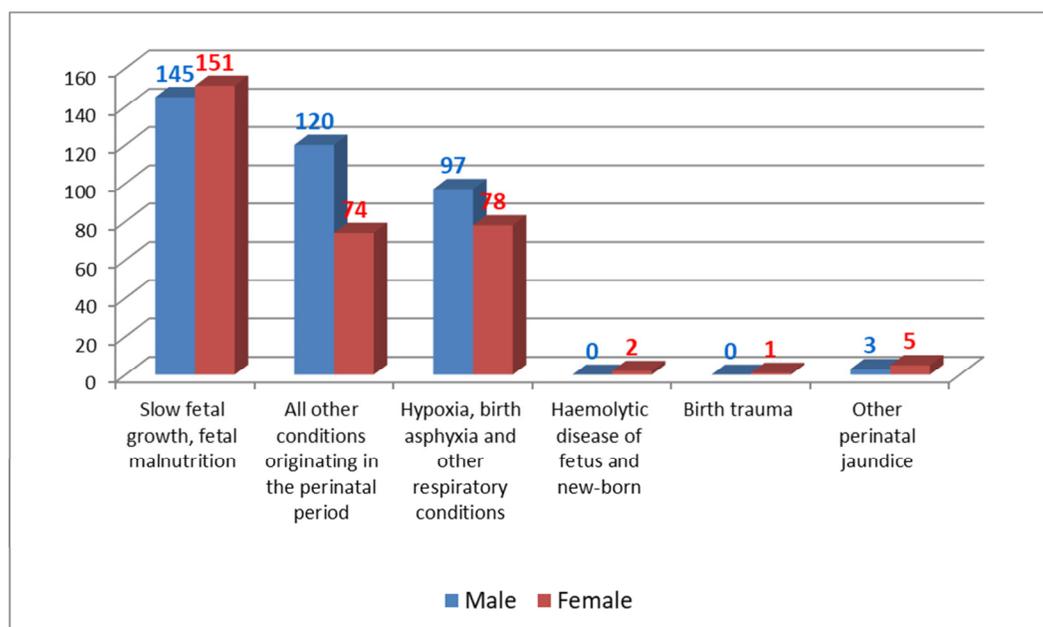
## 2.9 Certain Conditions Originating in the Perinatal Period (XVI): (P00-P96)

The major group of 'Certain Conditions Originating in the Perinatal Period' is the leading cause of Infant deaths, responsible for 2.13% of the total Medically Certified Deaths. This has contributed to 1.88% of male and 2.53% of female deaths of the total Medically Certified Deaths. 'Slow Foetal Growth, Foetal Malnutrition' (43.79%), 'All other conditions originating in the Perinatal period' (28.7%) and 'Hypoxia, birth asphyxia and other respiratory conditions' (25.89%) are the main cause of death occurred in the Perinatal period (below one year). 53.99% of deaths due to this cause were males.

**Table 2.40: Distribution of Major Causes of deaths among ‘Certain Conditions Originating in the Perinatal Period’**

Sl, No	CAUSE OF DEATH	SEX					
		Male		Female		Total	
		Number	%	Number	%	Number	%
1	Slow fetal growth, fetal malnutrition	145	39.73	151	48.55	296	43.79
2	All other conditions originating in the perinatal period	120	32.88	74	23.79	194	28.70
3	Hypoxia, birth asphyxia and other respiratory conditions	97	26.58	78	25.08	175	25.89
4	Haemolytic disease of fetus and new-born	0	0.00	2	0.64	2	0.30
5	Birth trauma	0	0.00	1	0.32	1	0.15
6	Other perinatal jaundice	3	0.82	5	1.61	8	1.18
Total Medically Certified Deaths due to CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD		365	100	311	100	676	100

**Chart 2.33: Distribution of major causes of deaths among ‘Certain Conditions Originating in the Perinatal Period’**



## 2.10 Distribution of cause of death under 'Other Groups'

The distribution of cause of death included as 'Other Groups' are given below:

Out of the total medically certified deaths, 2886 (9.09%) deaths are coming in this group in which 1754 were males and 1132 are females.

**Table 2.41: Distribution of causes of deaths under 'Other Groups'**

Sl, No	CAUSE OF DEATH	SEX					
		Male		Female		Total	
		Number	%	Number	%	Number	%
1	Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified ( R00-R99)	923	4.75	352	2.86	1275	4.02
2	Congenital malformations, deformations and chromosomal abnormalities ( Q00-Q99)	301	1.55	241	1.96	542	1.71
3	Diseases of the nervous system ( G00-G98)	280	1.4	241	1.96	521	1.64
4	Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism ( D50-D89)	147	0.76	157	1.28	304	0.96
5	Diseases of the musculoskeletal system and connective tissue ( M00-M99)	52	0.27	96	0.78	148	0.47
6	Diseases of the skin and subcutaneous tissue (L00-L98)	36	0.19	25	0.20	61	0.19
7	Mental and behavioural disorders ( F01-F99)	13	0.07	6	0.05	19	0.06
8	Pregnancy, childbirth and the puerperium (O00-O99)			14	0.11	14	0.04
9	Diseases of the ear and mastoid process (H60-H95)	0	0	0	0	0	0
10	10 Diseases of the eye and adnexa (H00-H59)	3	0.016	0	0.00	3	0.01
	Deaths due to other groups as percentage to total medically certified deaths	<b>1685</b>	<b>8.81</b>	<b>1154</b>	<b>9.81</b>	<b>2839</b>	<b>9.19</b>



## **CHAPTER-III**

# **SPECIFIC CAUSE OF MORTALITY IN DIFFERENT AGE AGROUPS**

- 3.1 Infants**
- 3.2 Children aged 1-4 year**
- 3.3 Children aged 5-14 years**
- 3.4 Persons aged 15-24 years**
- 3.5 Persons aged 25-34 years**
- 3.6 Persons aged 35-44 years**
- 3.7 Persons aged 45-54 years**
- 3.8 Persons aged 55-64 years**
- 3.9 Persons aged 65-69 years**
- 3.10 Old aged Persons (70 years and above)**



## CHAPTER - III

### Specific Cause of Mortality in Different Age Groups

#### 3.1. Infants

Out of the total Medically Certified Deaths, around 3.49% are Infants (children who could not complete their first birthday). The proportions of male and female deaths to the corresponding totals of medically certified deaths are 3.10% and 4.10% respectively. Out of 1108 infant deaths, 603 were male (54.42%).

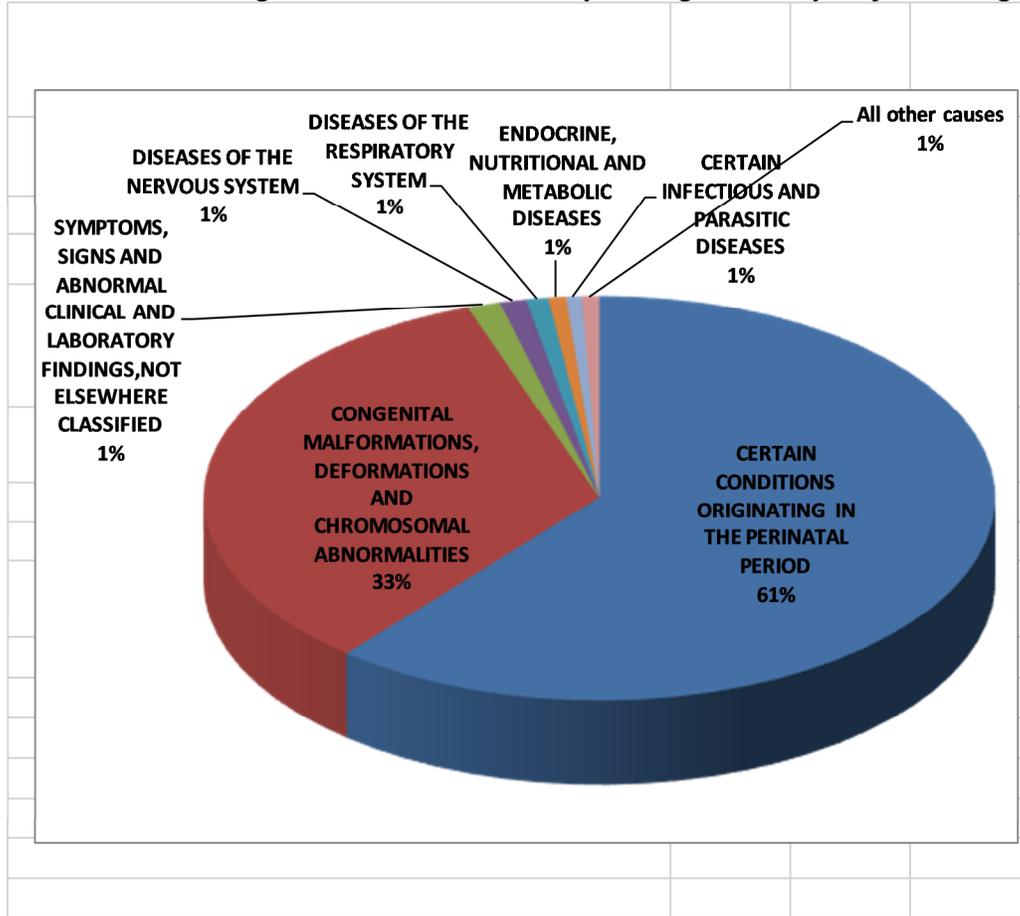
The maximum incidence of death under this age group has been reported to be caused by ‘Certain conditions originating in the perinatal period’ (61.01%) which includes diseases ‘Slow foetal growth, foetal malnutrition and immaturity ( P05-P07)’ (43.79%), ‘All other conditions originating in the perinatal period (ICD code P00-P04,P08,P29-P54,P56-P57,P60-P96.)’ (28.70%) and ‘Hypoxia, birth asphyxia and other respiratory conditions ( P20-P28)’ (25.89%).

This is followed by ‘Congenital Malformations, Deformations & Chromosomal Abnormalities’ (33.57%) of which ‘Congenital Malformations of the Circulatory System (Q20-Q28)’ (52.15%) in the major constituent. The distribution of mortality among infants by major cause groups has been given in Table 3.1 and in Chart 3.1.

**Table 3.1: Distribution of mortality among Infants by major cause group**

M.G/CAT./ S.C	CAUSE OF DEATH	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
XVI.	CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD	365	60.53	311	61.58	676	61.01
XVII.	CONGENITAL MALFORMATIONS, DEFORMATIONS AND CHROMOSOMAL ABNORMALITIES	206	34.16	166	32.87	372	33.57
XVIII.	SYMPTOMS, SIGNS AND ABNORMAL CLINICAL AND LABORATORY FINDINGS,NOT ELSEWHERE CLASSIFIED	11	1.82	4	0.79	15	1.35
VI.	DISEASES OF THE NERVOUS SYSTEM	6	1.00	6	1.19	12	1.08
X.	DISEASES OF THE RESPIRATORY SYSTEM	6	1.00	4	0.79	10	0.90
IV.	ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES	4	0.66	4	0.79	8	0.72
I	CERTAIN INFECTIOUS AND PARASITIC DISEASES	4	0.66	3	0.59	7	0.63
<b>All other causes</b>		<b>1</b>	<b>0.17</b>	<b>7</b>	<b>1.39</b>	<b>8</b>	<b>0.72</b>
<b>ALL CAUSES (MAJOR GROUP I TO XVIII)</b>		<b>603</b>	<b>100</b>	<b>505</b>	<b>100</b>	<b>1108</b>	<b>100</b>
<b>Deaths in the age group &lt;1 year as percentage to total Medically certified Deaths</b>		<b>603</b>	<b>3.10</b>	<b>505</b>	<b>4.10</b>	<b>1108</b>	<b>3.49</b>

Chart 3.1: Percentage distribution of mortality among infants by major cause group



### 3.2. Children aged 1-4 year

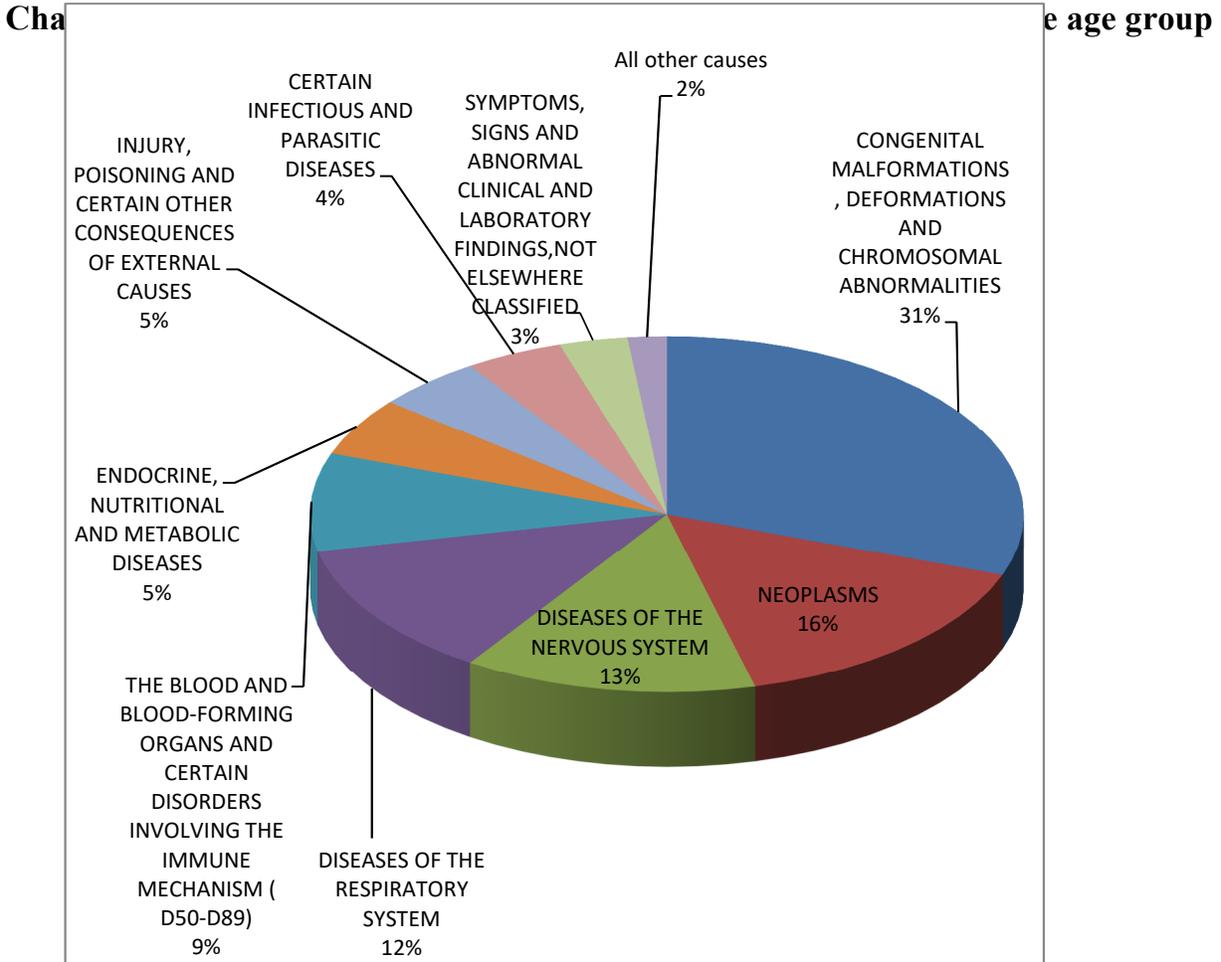
Of the total Medically Certified Deaths, 0.71% has been reported from this age-group. It accounts for 0.58% of males and 0.92% of female deaths in their respective total medically certified deaths. Out of 226 deaths in the age group '1-4', 113 were males (50%).

'Congenital malformations, deformations and chromosomal abnormalities' has caused the maximum 30.53% of total deaths reported under this age-group. The second highest cause is 'Neoplasm' (15.49%) in this age group of which 68.57% is due to 'Leukaemia' and next is 'Diseases of the nervous system' responsible for 13.27% of deaths. 'Diseases of the respiratory system' representing 12.39% of which 75% is due to Pneumonia. 'Endocrine, nutritional and metabolic diseases causes' with 5.31%, 'Injury, poisoning and certain other consequences of external causes' with 4.87%, 'Certain infectious and parasitic diseases' cause 4.42% are the next higher causes of death under this age group are the other major causes.

The distribution of mortality in the age group '1-4' by major cause group has been given in Table 3.2 and Chart 3.2.

**Table 3.2: Distribution of mortality among children in the age group '1-4' by major cause group.**

M.G/CA T./S.C	CAUSE OF DEATH	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
XVII.	CONGENITAL MALFORMATIONS, DEFORMATIONS AND CHROMOSOMAL ABNORMALITIES	33	29.20	36	31.86	69	30.53
II.	NEOPLASMS	17	15.04	18	15.93	35	15.49
VI.	DISEASES OF THE NERVOUS SYSTEM	14	12.39	16	14.16	30	13.27
X.	DISEASES OF THE RESPIRATORY SYSTEM	17	15.04	11	9.73	28	12.39
III.	DISEASES OF THE BLOOD AND BLOOD- FORMING ORGANS AND CERTAIN DISORDERS INVOLVING THE IMMUNE MECHANISM ( D50-D89)	12	10.62	8	7.08	20	8.85
IV.	ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES	7	6.19	5	4.42	12	5.31
XIX.	INJURY, POISONING AND CERTAIN OTHER CONSEQUENCES OF EXTERNAL CAUSES	4	3.54	7	6.19	11	4.87
I.	CERTAIN INFECTIOUS AND PARASITIC DISEASES	3	2.65	7	6.19	10	4.42
XVIII.	SYMPTOMS, SIGNS AND ABNORMAL CLINICAL AND LABORATORY FINDINGS,NOT ELSEWHERE CLASSIFIED	4	3.54	3	2.65	7	3.10
All other causes		2	1.77	2	1.77	4	1.77
ALL CAUSES (MAJOR GROUP I TO XIX)		113	100	113	100	226	100
Deaths in the age group 1-4year as percentage to total Medically certified deaths		113	0.58	113	0.92	226	0.71



### 3.3. Children aged 5-14 years:

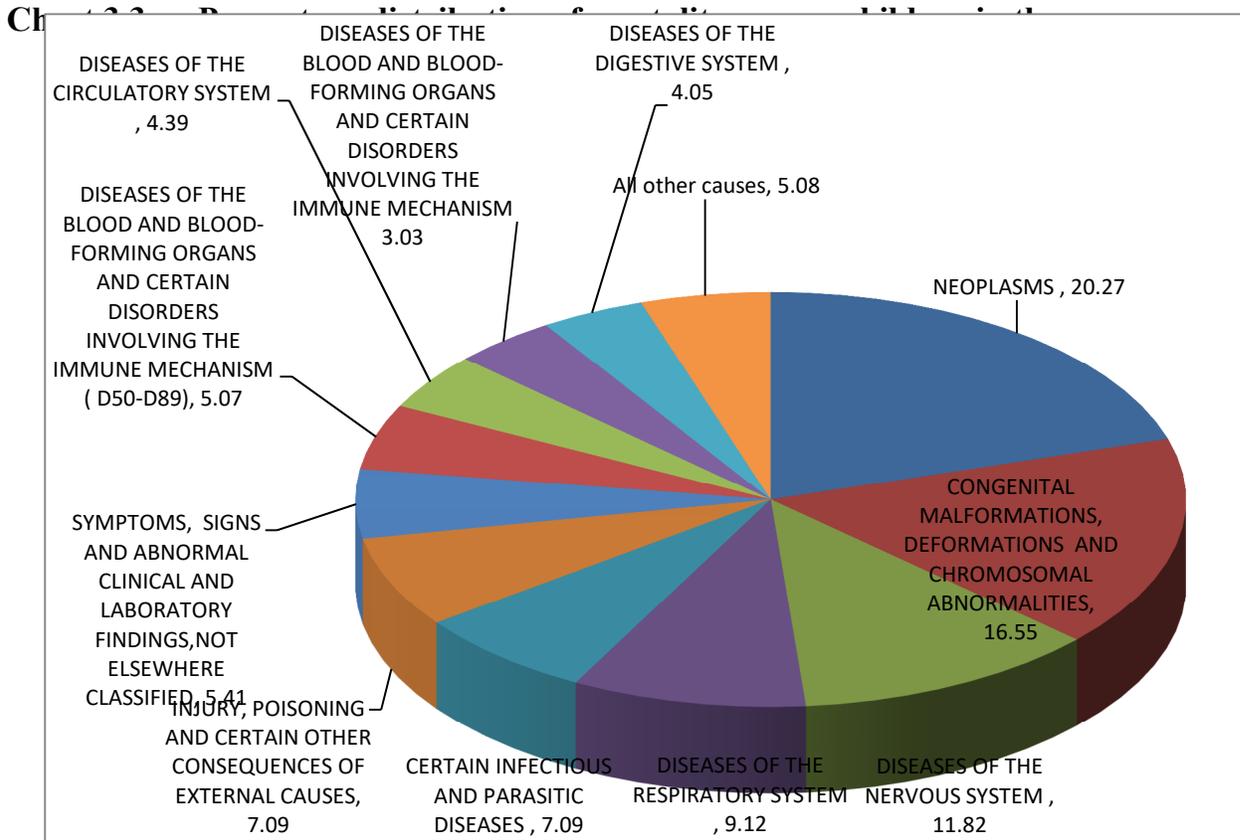
The share of this age group in the total medically certified deaths is 0.93%. It accounts for 0.81% of males and 1.12% of female deaths in their respective total medically certified deaths. Out of 296 deaths in the age group '5-14', 158 were males (53.38%).

Of the total reported deaths under this age group, 'Neoplasms' is 20.27%, is the major cause of death and 56.67% cases are due to 'Leukaemia'. Followed by 'Congenital Malformations, Deformations and Chromosomal Abnormalities' (16.55%), 'Diseases of the

nervous system’ (11.82%), ‘Diseases of Respiratory System’(9.12%), ‘Injury, poisoning and certain other consequences of external causes’ (7.09%),‘Certain infectious and parasitic diseases’(7.09%),‘Symptoms, ‘Signs and Abnormal Clinical and Laboratory Findings not Elsewhere Classified’ (5.41%) ‘Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism’ ( D50-D89)’ (5.06%), ‘Diseases of the circulatory system’ ( 4.39%), and ‘Endocrine, nutritional and metabolic diseases’ (4.05%)’ are the other major causes reported in this age group. The distribution of mortality in the age group ‘5-14’, by major cause groups is given in Table3.3 and Chart 3.3.

**Table 3.3: Distribution of mortality among children in the age group ‘5-14’ by major cause groups**

M.G/ CAT./ S.C	CAUSE OF DEATH	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
II.	Neoplasms	37	23.42	23	16.67	60	20.27
XVII.	Congenital malformations, deformations and chromosomal abnormalities	29	18.35	20	14.49	49	16.55
VI.	Diseases of the nervous system	16	10.16	19	13.77	35	11.82
X.	Diseases of the respiratory system	10	6.33	17	12.32	27	9.12
I.	Certain infectious and parasitic diseases	10	6.33	11	7.97	21	7.09
XIX.	Injury, poisoning and certain other consequences of external causes	14	8.86	7	5.07	21	7.09
XVIII.	Symptoms, signs and abnormal clinical and laboratory findings,not elsewhere classified	10	6.33	6	4.35	16	5.41
III.	Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism ( d50-d89)	10	6.33	5	3.62	15	5.07
IX.	Diseases of the circulatory system	5	3.16	8	5.80	13	4.39
IV.	Endocrine, nutritional and metabolic diseases	6	3.80	6	4.35	12	4.05
XI.	Diseases of the digestive system	3	1.90	9	6.52	12	4.05
All other causes		8	5.06	7	5.07	15	5.05
<b>ALL CAUSES ( MAJOR GROUP I to XIX)</b>		<b>158</b>	<b>100.0</b>	<b>138</b>	<b>100.0</b>	<b>296</b>	<b>100.0</b>
<b>Deaths in the age group 5-14 year as percentage to total Medically certified Deaths-</b>		<b>158</b>	<b>0.81</b>	<b>138</b>	<b>1.12</b>	<b>296</b>	<b>0.93</b>



### 3.4. Persons aged 15-24 years:

This age-group has contributed 1.76% of the total medically certified deaths. It accounts for 1.91% of males and 1.52% of female deaths in their respective total medically certified deaths. Out of 548 deaths in the age group ‘15-24’, 371 were males (66.49%).

The category consisting of ‘Injury, Poisoning & Certain Other Consequences of External Causes’, has caused the maximum 25.81% of total deaths reported under this age-group. Out of 144 deaths under the cause in the age group, 100 deaths are due to ‘Fractures, Other injuries of specified, unspecified and multiple body regions, Intracranial and internal injuries, including nerves’ in which 92 are male. Out of 19 deaths due to ‘Burns and Corrosions’, 18 are female.

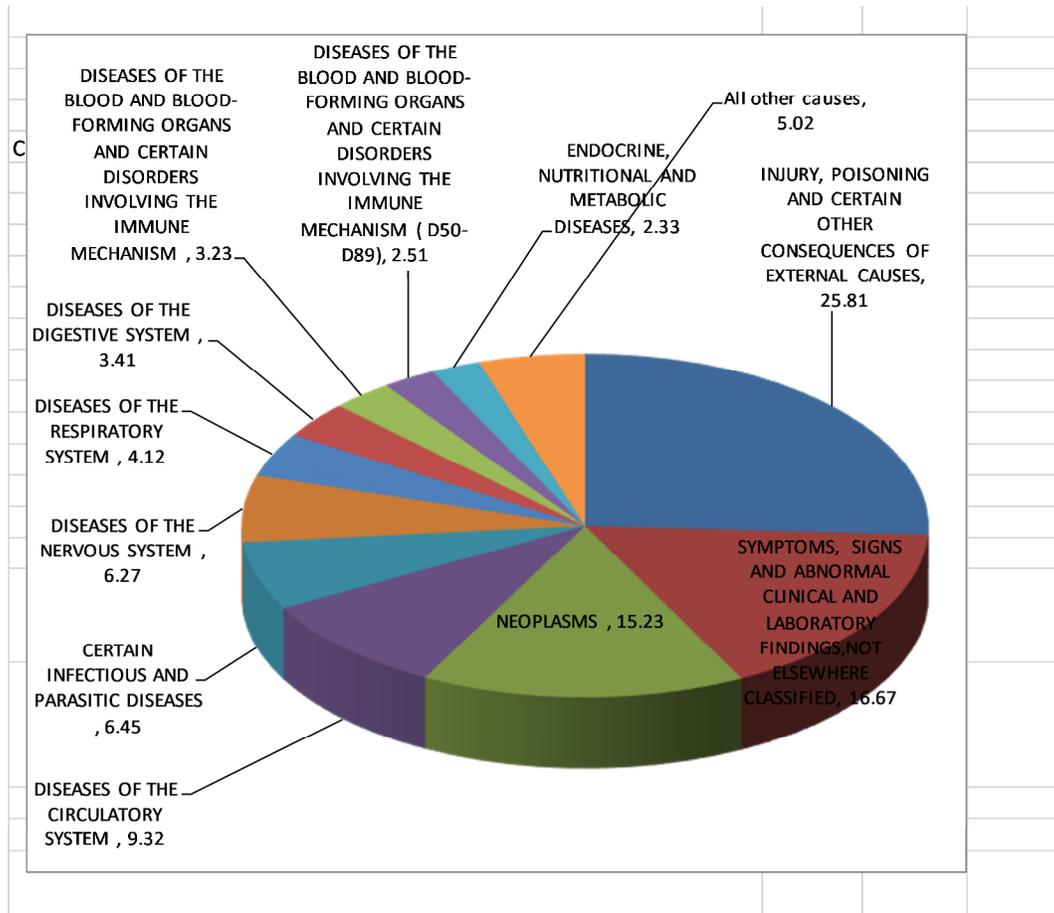
Of the total reported deaths under this age group the share of ‘Symptoms, Signs and Abnormal Clinical and Laboratory Findings, Not Elsewhere Classified’ (16.67%) is the second major cause of death.

‘Neoplasms’ is 15.23% of which 40% is due to ‘Leukaemia’. ‘Diseases of the Circulatory System’ (9.32%), followed by ‘Certain Infectious and Parasitic Diseases’ (6.45%), ‘Diseases of the nervous system’ (6.27%), ‘Diseases of the genitourinary system’(2.87%) and ‘Diseases of the Respiratory System’ (4.12%) and ‘Diseases of the digestive system (3.41%)’ are other leading causes of deaths. The distribution of mortality in the age group ‘15-24’, by major cause groups has been shown in Table 3.4 and Chart 3.4.

**Table 3.4: Distribution of mortality among persons in the age group ‘15-24’ by major Cause groups.**

M.G/ CAT/ S.C	CAUSE OF DEATH	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
Xix.	Injury, poisoning and certain other consequences of external causes	107	28.84	37	19.79	144	25.81
Xviii.	Symptoms, signs and abnormal clinical and laboratory findings,not elsewhere classified	72	19.41	21	11.23	93	16.67
Ii.	Neoplasms	53	14.29	32	17.11	85	15.23
Ix.	Diseases of the circulatory system	42	11.32	10	5.35	52	9.32
I.	Certain infectious and parasitic diseases	19	5.12	17	9.09	36	6.45
Vi.	Diseases of the nervous system	26	7.01	9	4.81	35	6.27
X.	Diseases of the respiratory system	15	4.04	8	4.28	23	4.12
Xi.	Diseases of the digestive system	8	2.16	11	5.88	19	3.41
Xiv.	Diseases of the genitourinary system	9	2.43	7	3.74	16	2.87
Iii.	Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism ( d50-d89)	4	1.08	10	5.35	14	2.51
Iv.	Endocrine, nutritional and metabolic diseases	6	1.62	7	3.74	13	2.33
	All other causes	10	2.70	18	9.63	28	5.02
	<b>ALL CAUSES (MAJOR GROUP I TO XIX)</b>	371	100	317	100	688	100
	<b>Deaths in the age group 15-24 year as percentage to total medically certified deaths-</b>	<b>371</b>	<b>1.91</b>	<b>317</b>	<b>1.52</b>	<b>688</b>	<b>1.76</b>

**Chart 3.4: Percentage distribution of medically certified deaths in the age group '15 -24' by major cause groups**



### 3.5. Persons aged 25-34 years:

This age group has constituted around 2.66% of total medically certified deaths of which 2.76% are males and 2.49% are female in their respective total medically certified deaths. Out of 843 deaths in the age group '25-34', 537 were males (63.70%).

A significant percentage of deaths have been reported due to 'Injury, Poisoning & Certain Other Consequences of External Causes' (17.79%). Number of male death is more than female under this cause (76%). Out of 150 deaths under the cause in the age group, 93 deaths are due to

‘Fractures, Other injuries of specified, unspecified and multiple body regions, Intracranial and internal injuries, including nerves’ of which 85 are male. A total number of 29 deaths are due to ‘Burns and Corrosions’ in which 14 are female.

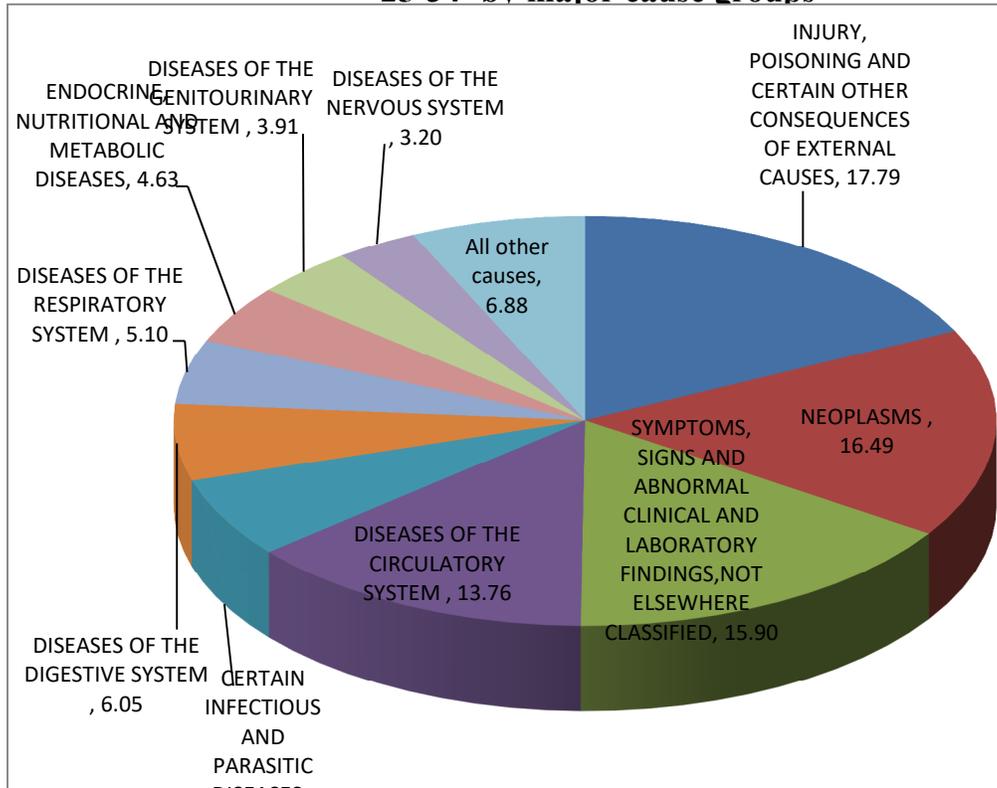
Of the total reported deaths under this age group, the share of ‘Neoplasms’ is 16.49%, of which 17.27% due to ‘Leukaemia’, 17.99% due to ‘Malignant neoplasms of digestive organs’ and 9.35% due to ‘Malignant neoplasm of breast’.

The next leading cause in the age group are ‘Symptoms Signs and Abnormal Clinical and Laboratory Findings, not Elsewhere Classified’ (15.90%) and ‘Diseases of the Circulatory System’ (13.76%). The other major determinants of deaths are ‘Certain Infectious and Parasitic Diseases’ (6.29%), and ‘Diseases of the digestive system’ (6.05%). The distribution of mortality in the age group ‘25-34’, by major cause groups has been depicted in Table 3.5 and Chart 3.5.

**Table 3.5: Distribution of mortality among persons in the age group ‘25-34’ by major cause groups**

M.g/c at./s.c	Cause of death	Sex					
		Male		Female		Total	
		No	%	No.	%	No.	%
<b>(0)</b>	Injury, poisoning and certain other consequences of external causes	114	21.23	36	11.76	150	17.79
<b>ii.</b>	Neoplasms	59	10.99	80	26.14	139	16.49
<b>Xviii.</b>	Symptoms, signs and abnormal clinical and laboratory findings,not elsewhere classified	95	17.69	39	12.75	134	15.90
<b>ix.</b>	Diseases of the circulatory system	82	15.27	34	11.11	116	13.76
<b>I.</b>	Certain infectious and parasitic diseases	32	5.96	21	6.86	53	6.29
<b>xi.</b>	Diseases of the digestive system	45	8.38	6	1.96	51	6.05
<b>X.</b>	Diseases of the respiratory system	24	4.47	19	6.21	43	5.10
<b>iv.</b>	Endocrine, nutritional and metabolic diseases	22	4.10	17	5.56	39	4.63
<b>xiv.</b>	Diseases of the genitourinary system	21	3.91	12	3.92	33	3.91
<b>vi.</b>	Diseases of the nervous system	18	3.35	9	2.94	27	3.20
<b>All other causes</b>		25	4.66	33	10.78	58	6.88
<b>ALL CAUSES (MAJOR GROUP I TO XVIII)</b>		537	100	306	100	843	100
<b>Deaths in the age group 25-34 year as percentage to total medically certified deaths-</b>		<b>537</b>	<b>2.76</b>	<b>306</b>	<b>2.49</b>	<b>843</b>	<b>2.66</b>

**Chart 3.5: Percentage distribution of medically certified deaths in the age group '25-34' by major cause groups**



### 3.6. Persons aged 35-44 years:

The overall contribution of this age-group in total medically certified deaths is 5.19%. It accounts for 5.45% of males and 4.79% of female deaths in their respective total medically certified deaths. Out of 1648 deaths in the age group '35-44', 1059 were males (64.26%).

A significant percentage of deaths have been reported due to 'Neoplasm' (20.08%) of which 17.82% is due to 'Leukaemia', 17.52% is due to 'Malignant neoplasms of digestive organs' and 13.60% due to 'Malignant neoplasm of breast', 8.16% due to Malignant Neoplasm of Genitourinary organs, 6.04% is due to 'Malignant neoplasms of respiratory and intrathoracic organs'.

The second leading cause in the age group is 'Diseases of the Circulatory System' (19.42%) of which number of male death is more than female death (70.63%).

Diseases of Digestive System’ (13.17%) of which number of male death is almost eight times more than female death (88.01%). Under the age group there are 217 deaths due ‘Diseases of Digestive System’, in which 185 deaths are due to ‘Diseases of the liver (85.25%)’. 11.23% of death under the age group is due to ‘Diseases of the liver’. Same cause is 15.49% of the total male deaths in the age group.

The next leading causes in the age group have been reported due to ‘Endocrine, nutritional and metabolic diseases’ (9.41%) of which 87.74% due to ‘Diabetes mellitus’.

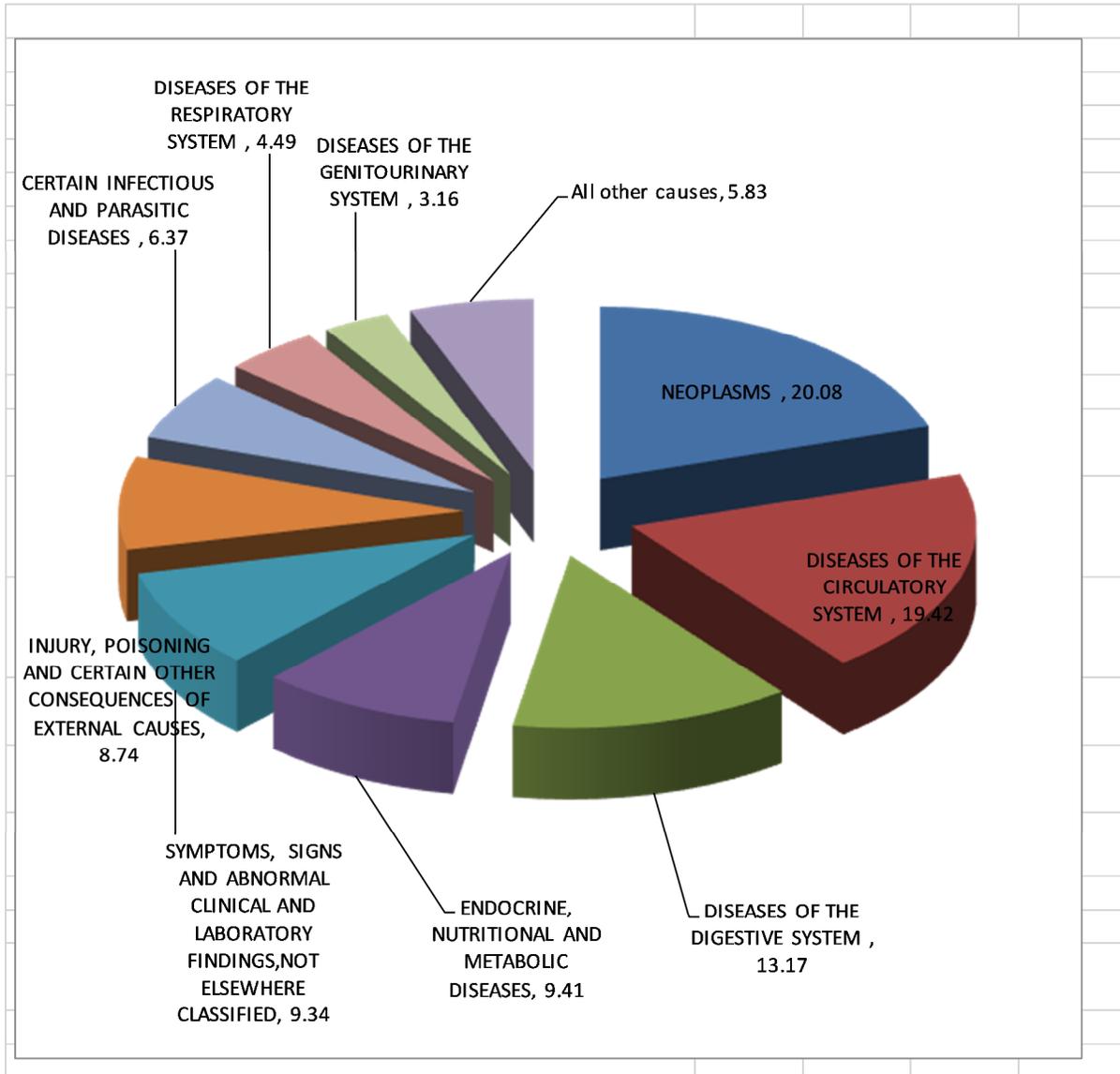
‘Symptoms and, ‘Signs and Abnormal Clinical and Laboratory Findings, not Elsewhere Classified’ (9.34%),

Next leading cause group of deaths under this age-group is ‘Injury, Poisoning & Certain Other Consequences of External Causes’ (8.74%). Number of male death is more than female under this cause (74.31%). Out of 144 deaths under the cause in this age group, 92 deaths are due to ‘Fractures, Other injuries of specified, unspecified and multiple body regions, Intracranial and internal injuries, including nerves’ in which 78 are male. A total of 19 deaths are due to ‘Burns and Corrosions’ in which 13 are female. The next leading cause group of deaths is ‘Certain Infectious and Parasitic Diseases’ (6.37%). The distribution of mortality in the age group ‘35-44’, by major cause groups has been presented in Table 3.6 and Chart 3.6.

**Table 3.6: Distribution of mortality among persons in the age group ‘35-44’ by major cause groups**

M.g/ cat./s.c	Cause of death	Sex					
		Male		Female		Total	
		No.	%	No.	%	No.	%
<b>ii.</b>	Neoplasms	141	13.31	190	32.26	331	20.08
<b>ix.</b>	Diseases of the circulatory system	226	21.34	94	15.96	320	19.42
<b>xi.</b>	Diseases of the digestive system	191	18.04	26	4.41	217	13.17
<b>iv.</b>	Endocrine, nutritional and metabolic diseases	91	8.59	64	10.87	155	9.41
<b>xviii.</b>	Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	113	10.67	41	6.96	154	9.34
<b>xix.</b>	Injury, poisoning and certain other consequences of external causes	107	10.10	37	6.28	144	8.74
<b>i.</b>	Certain infectious and parasitic diseases	64	6.04	41	6.96	105	6.37
<b>x.</b>	Diseases of the respiratory system	37	3.49	37	6.28	74	4.49
<b>xiv.</b>	Diseases of the genitourinary system	35	3.31	17	2.89	52	3.16
<b>All other causes</b>		54	5.10	42	7.13	96	5.83
<b>ALL CAUSES (MAJOR GROUP I TO XIX)</b>		1059	100	589	100	1648	100
Deaths in the age group 35-44 year as percentage to total medically certified deaths-		<b>1059</b>	<b>5.45</b>	<b>589</b>	<b>4.79</b>	<b>1648</b>	<b>5.19</b>

Chart 3.6: Percentage distribution of medically certified deaths in the age group '35-44' by major cause group





### 3.7. Persons aged 45-54 years:

This age group has contributed to 12.75% of the total medically certified deaths. It accounts for 13.38% of males and 11.76% of female deaths in their respective total medically certified deaths. Out of 4048 deaths in the age group '45-54', 2601 were males (64.25%).

The prominent causes of mortality in this age group are 'Diseases of Circulatory System' (25.49%) of which number of male death is more than female death (68.41%).

The second leading cause in the age group is Neoplasm (21.86%) of which 52.32% were females. The cause behind for having more female death is 'Malignant neoplasm of breast'. 14.12% of total neoplasm deaths under the age group is due to 'Malignant neoplasm of breast' which is 27.00% of the total female neoplasm death of the same age group. Under 'Neoplasm', 23.73% is due to 'Malignant neoplasms of digestive organs', 14.35% is due to 'Malignant neoplasms of respiratory and intrathoracic organs'. Under 'Malignant neoplasms of digestive organs', 38.52% male deaths is due to 'Malignant neoplasm of liver' among males.

'Endocrine, nutritional and metabolic diseases' (15.12%), is the third leading cause of death in which 90.20% is due to 'Diabetes mellitus'.

In the age group 10.80% death is due to 'Diseases of the Digestive System', of which 84.90% were males. Under 'Diseases of the Digestive System', 81.24% is due to 'Diseases of the liver'. Male deaths due to 'Diseases of the liver' are around seven times more than that of female. 'Diseases of the liver' in male is 11.88% of total male deaths under the age group.

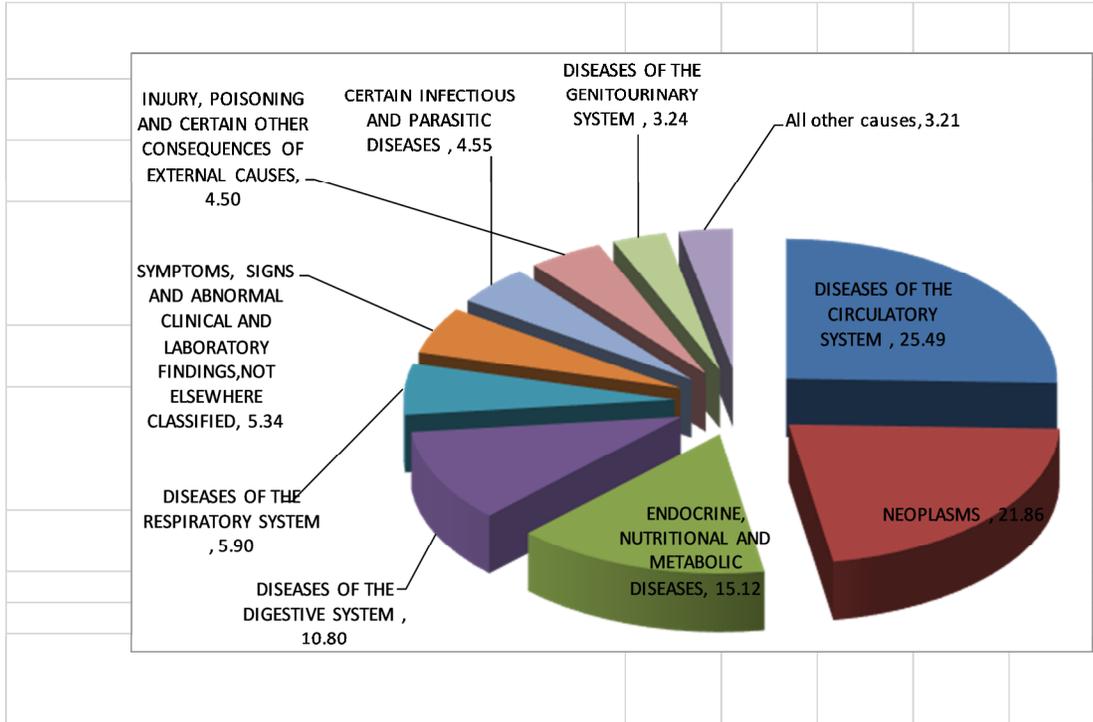
'Diseases of the Respiratory System' (5.90%), Infectious and Parasitic Diseases' (4.55%), 'Injury, Poisoning & Certain other consequences of External Causes' (4.50%) and 'Certain, 'Diseases of the Genitourinary System' (3.24%), are other leading cause groups of

deaths under this age-group. The distribution of mortality in the age group '45-54', by major cause groups has been presented in Table 3.7.

**Table 3.7: Distribution of mortality among persons in the age group '45-54' by major cause groups**

M.G/ CAT. /S.C	CAUSE OF DEATH	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
<b>IX.</b>	Diseases of the circulatory system	706	27.14	326	22.53	1032	25.49
<b>II.</b>	Neoplasms	422	16.22	463	32.00	885	21.86
<b>IV.</b>	Endocrine, nutritional and metabolic diseases	358	13.76	254	17.55	612	15.12
<b>XI.</b>	Diseases of the digestive system	371	14.26	66	4.56	437	10.80
<b>X.</b>	Diseases of the respiratory system	149	5.73	90	6.22	239	5.90
<b>XVII</b>	Symptoms, signs and abnormal clinical and laboratory findings,not elsewhere classified	167	6.42	49	3.39	216	5.34
<b>I.</b>	Certain infectious and parasitic diseases	126	4.84	58	4.01	184	4.55
<b>XIX.</b>	Injury, poisoning and certain other consequences of external causes	142	5.46	40	2.76	182	4.50
<b>XIV.</b>	Diseases of the genitourinary system	89	3.42	42	2.90	131	3.24
<b>All other causes</b>		71	2.73	59	4.08	130	3.21
ALL CAUSES (MAJOR GROUP I TO XIX)		2601	100	1447	100	4048	100
<b>Deaths in the age group 35-44 year as percentage to total Medically certified Deaths-</b>		<b>2601</b>	<b>13.38</b>	<b>1447</b>	<b>11.76</b>	<b>4048</b>	<b>12.75</b>

**Chart 3.7: Percentage distribution of medically certified deaths in the age group ‘45-54’ by major cause group.**



### 3.8. Persons aged 55-64 years:

This age group has contributed to 21.89% of the total medically certified deaths. It accounts for 23.93% of males and 18.66% of female deaths in their respective total medically certified deaths. Out of 6948 deaths in the age group ‘55-64’, 4651 were males (66.94%).

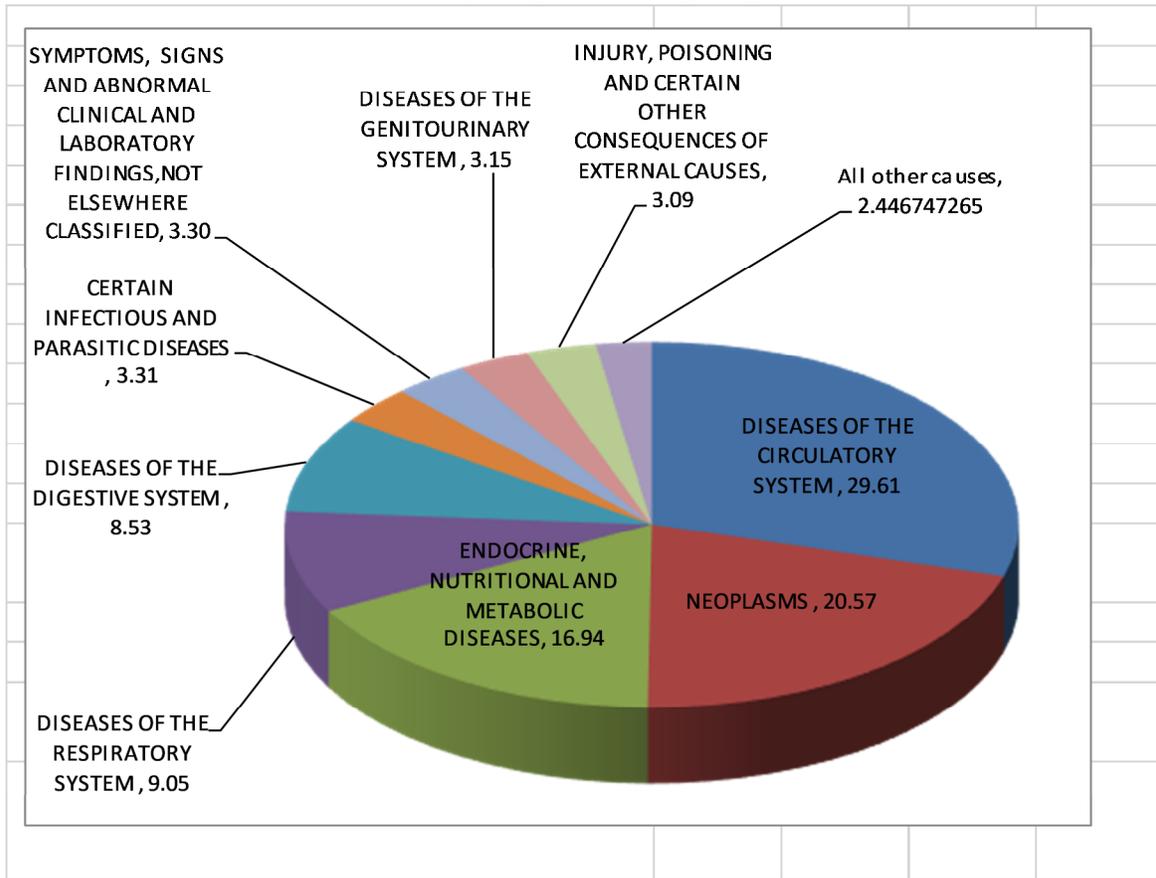
The prominent causes of mortality in this age group are ‘Diseases of Circulatory System’ (29.61%) of which 66.36% were males. The second leading cause in the age group is ‘Neoplasm’ (20.57%) of which number of male death is more than female death (64.03%). Under ‘Neoplasm’, the major cause is ‘Malignant neoplasms of digestive organs’ (30.00%) ‘Malignant neoplasms of respiratory and intrathoracic organs’ (21.76%), and ‘Malignant neoplasm of breast’ (8.12%) which is 22.57% of the total female neoplasm death of the same age group.

‘Endocrine, nutritional and metabolic diseases’ (16.94%) is the third higher cause in which 56.19% due to ‘Diabetes mellitus’. ‘Diseases of the Digestive System’ is (8.53%) in which 80.78% is male. Under ‘Diseases of the Digestive System’ 84.99% is due to ‘Diseases of the liver’. ‘Diseases of the Respiratory System’ (9.05%) is the leading cause of death in the age group of which 70.90% were males. ‘Diseases of the Genitourinary system’ (3.15%), ‘Certain Infectious and Parasitic Diseases’ (3.31%), ‘Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified’ (3.30%) and ‘Injury, Poisoning & Certain other consequences of External Causes’ (3.09%) are other leading cause groups of deaths under this age-group. The distribution of mortality in the age group ‘55-64’, by major cause groups has been presented in Table 3.8 and Chart 3.8.

**Table 3.8: Distribution of mortality among persons in the age group ‘55-64’ by major cause groups**

M.G/ CAT/ S.C	CAUSE OF DEATH	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
<b>IX.</b>	Diseases of the circulatory system	1365	29.35	692	30.13	2057	29.61
<b>II.</b>	Neoplasms	915	19.67	514	22.38	1429	20.57
<b>IV.</b>	Endocrine, nutritional and metabolic diseases	698	15.01	479	20.85	1177	16.94
<b>X.</b>	Diseases of the respiratory system	446	9.59	183	7.97	629	9.05
<b>XI.</b>	Diseases of the digestive system	479	10.30	114	4.96	593	8.53
<b>I.</b>	Certain infectious and parasitic diseases	163	3.50	67	2.92	230	3.31
<b>XVIII</b> .	Symptoms, signs and abnormal clinical and laboratory findings,not elsewhere classified	173	3.72	56	2.44	229	3.30
<b>XIV.</b>	Diseases of the genitourinary system	147	3.16	72	3.13	219	3.15
<b>XIX.</b>	Injury, poisoning and certain other consequences of external causes	167	3.59	48	2.09	215	3.09
<b>All other causes</b>		98	2.10	72	3.13	170	2.44
<b>ALL CAUSES (MAJOR GROUP I TO XIX)</b>		4651	100	2297	100	6948	100
<b>Deaths in the age group 55-64 year as percentage to total Medically certified Deaths-</b>		4651	<b>23.93</b>	2297	<b>18.66</b>	6948	<b>21.89</b>

**Chart 3.8: Percentage distribution of mortality among persons in the age group ‘55-64’ by major cause groups**



### 3.9. Persons aged 65-69 years:

This age group contribute 14.71% in the total medically certified deaths. It accounts for 15.26% of males and 13.84% of female deaths in their respective total medically certified deaths. Out of 4669 deaths in the age group ‘65-69’, 2966 were males (63.53%).

‘Diseases of the Circulatory System’ have contributed to the maximum number (34.01%) of total deaths in this age-group. In the ‘Circulatory System deaths’, ‘Ischaemic Heart Diseases’ have taken the highest toll contributing around 43.07% followed by ‘Cerebrovascular diseases’ (32.18%).

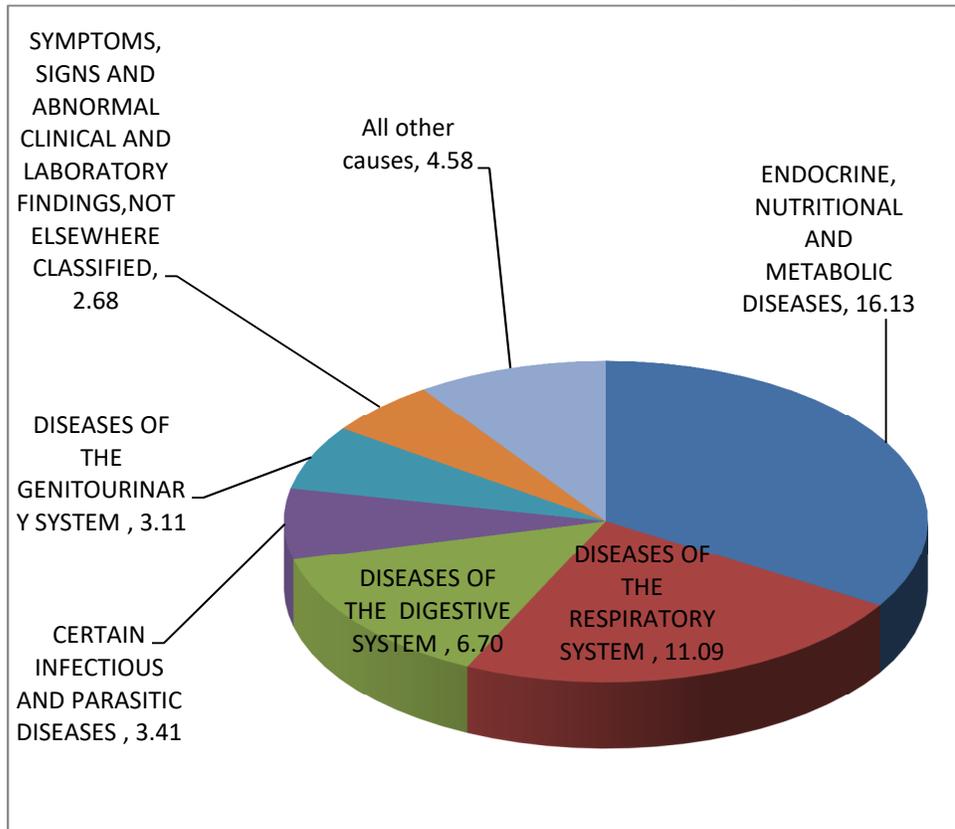
The second leading cause in the age group is ‘Neoplasm’ (19.71%) of which number of male death is more than female death (66.04%). Under Neoplasm, maximum death is due to ‘Malignant neoplasms of digestive organs’ (30.68%), followed by ‘Malignant neoplasms of respiratory intrathoracic organs(24.00).

Around 93.23% of the deaths under the cause group ‘Endocrine, Nutritional and Metabolic Diseases’, is due to ‘Diabetes Mellitus’. The cause group ‘Diseases of the respiratory system’ is responsible for 11.09% of the total deaths. The distribution of mortality in the age group ‘65-69’ by major cause group has been highlighted in the Table 3.9 and Chart 3.9.

**Table 3.9: Distribution of mortality among persons in the age group ‘65-69’ by major cause groups**

M.G/CAT. /S.C	CAUSE OF DEATH	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
<b>IX.</b>	Diseases of the circulatory system	963	32.47	625	36.70	1588	34.01
<b>II.</b>	Neoplasms	564	19.02	290	17.03	854	18.29
<b>IV.</b>	Endocrine, nutritional and metabolic diseases	412	13.89	341	20.02	753	16.13
<b>X.</b>	Diseases of the respiratory system	375	12.64	143	8.40	518	11.09
<b>XI.</b>	Diseases of the digestive system	238	8.02	75	4.40	313	6.70
<b>I.</b>	Certain infectious and parasitic diseases	106	3.57	53	3.11	159	3.41
<b>XIV.</b>	Diseases of the genitourinary system	85	2.87	60	3.52	145	3.11
<b>XVIII.</b>	Symptoms, signs and abnormal clinical and laboratory findings,not elsewhere classified	88	2.97	37	2.17	125	2.68
	All other causes	135	4.55	79	4.64	214	4.58
<b>ALL CAUSES ( MAJOR GROUP I to XX)</b>		2966	100	1703	100	4669	100
Deaths in the age group 65-69 year as percentage to total Medically certified Deaths-		<b>2966</b>	<b>15.26</b>	<b>1703</b>	<b>13.84</b>	<b>4669</b>	<b>14.71</b>

**Chart 3.9: Percentage distribution of mortality among persons in the age group ‘65-69’ by major cause groups**



**3.10. Aged (70 years and above):**

35.76% of total medically certified deaths are from the age group of 70 years and above. It accounts for 32.61% of males and 40.74% of female deaths in their respective total medically certified deaths. Out of 11353 deaths in 70 and above age group, 6339 were males (55.84%).

In this age group ‘Diseases of the Circulatory System’ alone contribute 41.42% of deaths. Ischemic Heart Diseases constitute maximum number (41.83%) of ‘Circulatory system deaths’ followed by ‘Cerebrovascular diseases’ (33.11%).

With the share of 16.99%, ‘Endocrine, Nutritional and Metabolic Disease’ is the second leading cause group of death in this age group. ‘Diabetes Mellitus’ is alone cause for about 87.87% deaths under this age group.

‘Diseases of Respiratory System’ is the third leading cause of death with 13.52% of total deaths under this age group. ‘Other Lower Respiratory Disorders’, ‘All other Diseases of the Respiratory System’ and ‘Pneumonia’ constituents of Diseases of Respiratory system are 77.20%, 11.21% and 7.95% respectively.

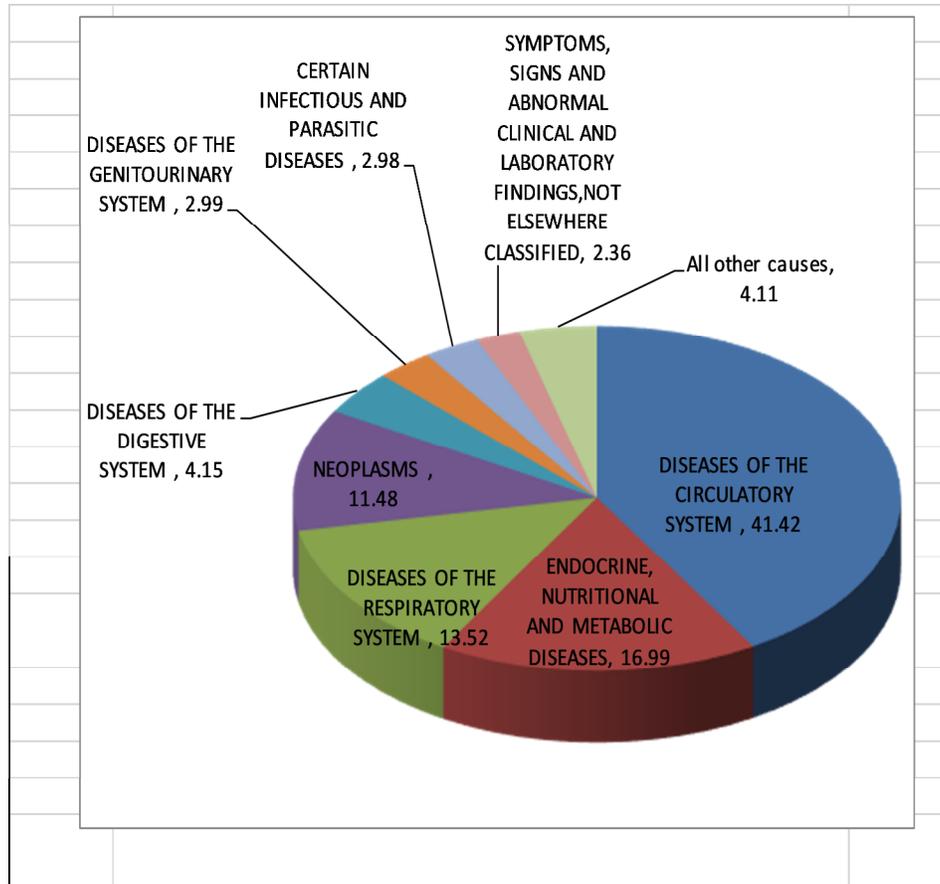
The share of Neoplasm deaths in this age group is 11.48%. The percentage of male death rate is 66.70%.

The distribution of mortality in the age group 70 years and above, by major cause group has been presented in Table 3.10 and Chart 3.10.

**Table 3.10: Distribution of mortality among old aged persons ‘70 or above years’ by major cause groups**

M.G/CAT. /S.C	CAUSE OF DEATH	SEX					
		Male		Female		Total	
		No.	%	No.	%	No.	%
IX.	Diseases of the circulatory system	2398	37.83	2304	45.95	4702	41.42
IV.	Endocrine, nutritional and metabolic diseases	1021	16.11	908	18.11	1929	16.99
X.	Diseases of the respiratory system	979	15.44	556	11.09	1535	13.52
II.	Neoplasms	873	13.77	430	8.58	1303	11.48
XI.	Diseases of the digestive system	279	4.40	192	3.83	471	4.15
XIV.	Diseases of the genitourinary system	202	3.19	138	2.75	340	2.99
I.	Certain infectious and parasitic diseases	201	3.17	137	2.73	338	2.98
XVIII.	Symptoms, signs and abnormal clinical and laboratory findings,not elsewhere classified	174	2.74	94	1.87	268	2.36
All other causes		212	3.34	255	5.09	467	4.11
<b>ALL CAUSES (MAJOR GROUP I TO XVIII)</b>		<b>6339</b>	<b>100</b>	<b>5014</b>	<b>100</b>	<b>11353</b>	<b>100</b>
<b>Deaths in the age group 65-69 year as percentage to total Medically certified Deaths-</b>		<b>6339</b>	<b>32.61</b>	<b>5014</b>	<b>40.74</b>	<b>11353</b>	<b>35.76</b>

**Chart 3.10: Percentage distribution of mortality among old aged persons '70 or above years' by major cause groups**





## **Appendices**

<b>Appendix I</b>	<b>List of Hospitals Reporting M CCD</b>
<b>Appendix II</b>	<b>Form No 4 Medical Certificate of Cause of Death - for Hospital events</b>
<b>Appendix III</b>	<b>Form No 4A Medical Certificate of Cause of Death – for Non Hospital events</b>
<b>Appendix IV</b>	<b>Major Groups and the description of ICD-10 Codes</b>
<b>Appendix V</b>	<b>National List based on ICD-10.</b>
<b>Appendix VI</b>	<b>Centre wise cause of death under major cause group</b>
<b>Appendix VII</b>	<b>Centre wise Cause of Death(Age wise and Sex wise)</b>
<b>Appendix VIII</b>	<b>Cause of Death under major cause group</b>

## Appendix – I

### LIST OF HOSPITALS REPORTING MCCD

#### Thiruvananthapuram (44 Nos.)

SI No	Name of Hospital	Govt/Pvt
1	CHC Fort Hospital, Trivandrum	Govt
2	ESI Hospital, Peroorkada	Govt
3	Govt. Dist.Model Hospital ,Peroorkada	Govt
4	Govt. Mental Healthcare, Oolampara	Govt
5	General Hospital ,Trivandrum	Govt
6	Govt. MCH ,Trivandrum	Govt
7	Govt. W&C Hospital, Thycaud	Govt
8	Regional Cancer Centre ,Trivandrum	Govt
9	Sanitorium for Chest diseases, Pulayanarcotta	Govt
10	SAT Hospital , Trivandrum	Govt
11	Sree ChithiraThirunal Institute of Medical Science& Technology	Govt
12	AJ Hospital, Kazhakkootam	Pvt
13	Al Areef Hospital ,Ambalathara	Pvt
14	Anadiyil Hospital, Thekkummoodu	Pvt
15	Ananthapuri Hospital&Research Centre, Chakka	Pvt
16	Arumana Hospital,	Pvt
17	Attukal Devi Institute of medical Sciences Ltd , Attukal	Pvt
18	BNV Hospital, Thiruvallam.	Pvt
19	Beema Mahim SUT, Beemapally	Pvt
20	Cosmopolitan Hospital ,Murinjalapam	Pvt

21	Credence Hospital, Ulloor	Pvt
22	CSI Mission Hospital ,Kazhakkootam	Pvt
23	Dr.Govindans Hospital, GH Junction	Pvt
24	Geethanjali Hospital, Vazhuthacaud	Pvt
25	Gowreesha Hospital, Gowreeshapattam	Pvt
26	Holy Cross Hospital , Sangumugham	Pvt
27	Jubilee Memorial Hospital, Palayam	Pvt
28	KJK Hospital ,Nalanchira	Pvt
29	KIMS Hospital, Anayara.	Pvt
30	Lords Hospital, Anayaara	Pvt
31	Meditrena Hospital, Plamoodu	Pvt
32	PRS Hospital, Killipalam	Pvt
33	Samad Hospital, Pattoor	Pvt
34	Santhwana Hospital, Ambalamukku	Pvt
35	SK Hospital, Edapazhinji	Pvt
36	SP Fort Hospital ,Fort	Pvt
37	Sree RamakrishnaAshramam Hospital, Shasthamangalam	Pvt
38	St.Anns Nursing Home Pallimukku	Pvt
39	SUT Hospital, Pattom	Pvt
40	SUT Royal Hospital, Pongummoodu	Pvt
41	SUT Royal Mother&Baby Hospital	Pvt
42	The India Hospital, Melethampanoor	Pvt
43	TSC Hospital, Veli	Pvt
44	Valsala Nursing Home, Bakery	Pvt

**Kollam (17 Nos.)**

<b>Sl. No</b>	<b>Name of Hospital</b>	<b>Govt/Pvt</b>
1	AARM District Hospital	Govt
2	AGC Nursing Home	Pvt
3	Bishop Benziger Hospital	Pvt
4	Dr.K Damodaran Memorial Hospital	Pvt
5	Dr.Nairs Hospital	Pvt
6	Victoria Hospital	Govt
7	Kumar Hospital	Pvt
8	ESI Hospital	Govt
9	N.S.Hospital	Pvt
10	Sankar Shashtyabdapoorthy Memorial Hospital	Pvt
11	Upasana Hospital	Pvt
12	Prathibha Hospital	Pvt
13	PHC Palathra	Pvt
14	Govt. Homoeo Hospital	Govt
15	Govt. Ayurvedic Hospital	Govt
16	Nani Memorial Hospital	Govt
17	N.S Hospital Maternity Home	Pvt

### Alappuzha (8 Nos.)

SINo	Name of Hospital	Govt/Pvt
1	T.D.Medical College Hospital	Govt
2	General Hospital	Govt
3	Women&Children Hospital	Govt
4	ESI Hospital	Govt
5	District Ayurveda Hospital	Govt
6	Panchakarma Hospital	Govt
7	District Homoeo Hospital	Govt
8	Sahrudaya Hospital	Pvt

### Ernakulam (40 Nos.)

Sl No	Name of Hospital	Govt/Pvt
1	General Hospital, Ernakulam	Govt
2	Lisie Hospital,Ernakulam	Pvt
3	Lourde Hospital,Ernakulam	Pvt
4	Lakshmi Hospital,Ernakulam	Pvt
5	M.A.J Hospital,Edappilly	Pvt
6	Amritha Institute of Medical Science and Research Centre	Pvt
7	Medical Trust Hospital	Pvt
8	Ernakulam Medical Centre	Pvt
9	P.V.S Memorial Hospital	Pvt
10	Cochin Hospital	Pvt
11	Krishna Hospital	Pvt
12	Akshaya Hospital	Pvt
13	Sree Sudheendra Medical Mission	Pvt
14	Dr.Joy's Hospital for Women and Children	Pvt
15	E S I Hospital	Pvt
16	Welcare Hospital	Pvt

17	Specialist Hospital	Pvt
18	Dr.Kunjalu's Nursing Home	Pvt
19	City Hospital Pvt. Ltd	Pvt
20	P N V M Hospital	Pvt
21	I N H S Sanjeevani	Pvt
22	Cochin Port Trust Hospital	Pvt
23	Indira Gandhi Co-operative Hospital	Pvt
24	Govt. Women and Children	Govt
25	Govt. Hospital Fort Cochin	Govt
26	Govt. Maharaja's Hospital	Govt
27	Gautham Hospital	Pvt
28	Lakshmi Hospital Fort Cochin	Pvt
29	Sangeeth Nursing Home	Pvt
30	Jishy Hospital	Pvt
31	Jacob's Hospital	Pvt
32	Westside Hospital	Pvt
33	Chandrassery Hospital	Pvt
34	Holy Cross Hospice	Pvt
35	Anne Marry Joachim Hospital	Pvt
36	Our Lady Hospital	Pvt
37	Fathima Hospital	Pvt
38	Sunrise Hospital	Pvt
39	Polakkulath Narayanan Renai Medicity	Pvt
40	V.G.Saraf Memorial Hospital	Pvt

### Kozhikode (41 Nos)

Sl No	Name of Hospital	Govt/Pvt
1	Alzheimer's and Related disorder society of India	Pvt
2	Ashoka Hospital	Pvt
3	Baby Memorial Hospital	Pvt
4	Calicut Hospital and Nursing Home	Pvt
5	Chest Hospital	Pvt
6	City Co-op Hospital	Pvt
7	District Co-op Hospital ,Kozhikode	Pvt
8	Dr.Vidhya Prakash's Homoeo clinic	Pvt
9	Dr.Ismail Sait Medical centre for Homoeopathic Research and Hospital	Pvt
10	Fathima Hospital	Pvt
11	Govt. Homoeo Hospital	Govt
12	Govt. Leprosy Hospital Kozhikode	Govt
13	Govt. Women&Children Hospital	Govt
14	Govt. Ayurvedic Hospital	Govt
15	Govt. General Hospital	Govt
16	Govt. Homoeo Medical College Hospital	Govt
17	Govt. Mental Hospital	Govt
18	Institute of Chest Diseases	Govt
19	Institute of Maternal and Child Health Medical College	Govt
20	Iquraa International Hospital and Research Centre	Pvt
21	Koyas Hospital	Pvt

22	Malabar Diabetic Foundation	Pvt
23	Malabar Eye Hospital&Research Centre Pvt Ltd	Pvt
24	Malabar Hospital& Urology Centre	Pvt
25	Malabar Institute of Medical Science Ltd	Pvt
26	Manohar Hospital	Pvt
27	Medical College Hospital	Pvt
28	Super Speciality Block	Pvt
29	National Hospital	Pvt
30	Nirmala Hospital	Pvt
31	PVS Hospital Pvt Ltd	Pvt
32	Pain & Palliative Care Society	Pvt
33	Rajendra Nursing Home	Pvt
34	Ramanatha Nursing Home	Pvt
35	R.M Hospital	Pvt
36	Santhi Hospital	Pvt
37	Shiba Surgery & Urology Centre	Pvt
38	TPs Hospital	Pvt
39	Vathiad Medical Centre	Pvt
40	Vijaya Hospital	Pvt
41	Viveka Hospital	Pvt

**TOTAL MCCD HOSPITAL IN KERALA-150**

**Appendix – II**  
**FOR HOSPITAL EVENTS**  
**FORM NO. 4**  
**(See Rule 7)**  
**MEDICAL CERTIFICATE OF CAUSE OF DEATH**  
 (Hospital In-patients. Not to be used for still births)  
 To be sent to Registrar along with Form No. 2 (Death Report)

Name of the Hospital.....I here  
 by certify that the person whose particular care given below died in the hospital in ward  
 No.....On..... At.....AM/PM.

<b>NAME OF DECEASED :</b>				For use of Statistical Office
Sex	Age of Death :			
1.Male 2.Female	If one year or more, age in years	If less than one year, age in month	If less than one month age in days	
<b>CAUSE OF DEATH</b>				Interval between onset and death approx.
<p><b>I</b> (a).....</p> <p>Immediate cause Due to( or as a consequences of)</p> <p>State the disease, injury or complication</p> <p>Which caused death, not the mode of dying</p> <p>such as heart failure, asthenia, etc.</p> <p>Antecedent cause (b).....</p> <p style="padding-left: 100px;">Due to (or as a consequences of )</p> <p>Morbid conditions, if any,</p> <p>Giving rise to the above cause</p> <p>Stating under lying conditions last</p> <p>(c).....</p> <p><b>II</b></p> <p>Other significant conditions</p> <p>contributing to the death .....</p> <p>but not related to the disease or .....</p> <p>Condition causing it.....</p>				

**Manner of Death**

How did the injury occur?

1. Natural 2. Accident 3.Suicide 4.Homicide5.Pending investigation.

---

If deceased was a female, was the pregnancy the death associated with ? 1.Yes 2.No

If yes, was there a delivery? 1. Yes 2.No.

---

Name and signature of the Medical attendant certifying the cause of death

Date of verification.....

---

(To be detached and handed over to the relative of the deceased)

Certified that Sri/Smt/Kum.....S/W/D of

Sri.....R/O.....was admitted to  
this hospital on .....and expired on .....

Doctor.....

(Medical Superintendent& Name of Hospital)

**APPENDIX –III**

**FOR NON HOSPITAL EVENTS**

**FORM NO. 4A**

(See Rule 7)

**MEDICAL CERTIFICATE OF CAUSE OF DEATH**

(For non-institutional deaths .Not to be used for still birth)

To be sent to register along with Form No.2(Death Report)

I hereby certify that the deceased Sri/Smt/Kum .....son/wife/daughter of .....resident of .....was under my treatment from.....to.....and he/she died on .....at .....AM/PM.

<b>NAME OF DECEASED</b>				For use of Statistical Office
Sex	Age of Death			
1.Male 2.Female	If one year or more, age in years	If less than one year, age in month	If less than one month age in days	
<b>CAUSE OF DEATH</b>				Interval between onset and death approx.
<p><b>I</b> (a).....</p> <p>Immediate cause Due to (or as a consequences of) State the disease, injury or complication Which caused death, not the mode of dying such as heart failure, asthenia, etc</p> <p>Antecedent cause (b).....</p> <p>Due to (or as a consequences of ) Morbid conditions, if any, Giving rise to the above cause, Stating under lying conditions last</p> <p>(c).....</p> <p><b>II</b></p> <p>Other significant conditions</p> <p>Contributing to the death .....</p> <p>But not related to the disease or .....</p> <p>Condition causing it. ....</p>				

If deceased was a female, was the pregnancy the death associated with? 1. Yes 2.No  
If yes, was there a delivery? 1. Yes 2.No

---

Name and signature of the Medical attendant certifying the cause of death

Date of verification.....

---

(To be detached and handed over to the relative of the deceased)

Certified that Sri/Smt/Kum.....S/W/D of  
Sri.....R/O.....was under my  
treatment from.....to.....and he/she expired on  
.....AM/PM.

Doctor.....

(Medical Superintendent &  
Name of Hospital)

## **Appendix - IV**

# **MAJOR GROUPS AND THE DESCRIPTION OF ICD-10 CODES**

The classification of diseases may be defined as a system of categories to which morbid entities are assigned according to established criteria. The Tenth Revision of International Classification of Diseases (ICD-10) is a single coded list of three-character categories, each of which can be further divided into up to ten four-character subcategories. In place of the purely numeric coding system of ICD-9, ICD-10 uses alphanumeric code with a letter in the first position and a number in the second, third and fourth positions the fourth character follows a decimal point. The code numbers can range from A00.0 to Z99.9. The letter U is not used and is kept blank for use in future. Codes U00-U49 is kept reserved to be used for the provisional assignment of new diseases of uncertain etiology. Codes U50-U99 may be used in research, e.g. when testing an alternative sub-classification for a special project.

2. The National list for tabulation of Morbidity and Mortality based on the Ninth Revision of ICD-9, 1975 was adopted in MCCD from 1980 to 1998. Subsequently, the World Health Organization (WHO) brought out 10th Revision of International Classification of Diseases (ICD) and the National List for tabulation of Morbidity and Mortality data, based on ICD-10 has been finalized in consultation with the states to meet their requirements and has been adopted from 1999 onward for MCCD Report. The list based on ICD-10 comprises of 20 major Groups, 69 categories and 193 sub-categories of causes as compared to 18 major groups including supplementary classification of Injury & poisoning, 66 categories and 194 sub-categories of causes (includes few single causes) of national list based on ICD-9. Chapters, Blocks of three-character categories and group of three/four-character categories of ICD-10 have been considered as Major Groups, Categories and sub-categories respectively in the national list.

3. As per the recommendations of the ICD-10, data on 'Medical Certification of Cause of Death' have been tabulated for a total of 69 categories of causes under Major Groups I to XX of National List including External Causes of morbidity and mortality.

## National List based on ICD-10

### Major Groups I to XIX:

1. Categories-58 (Group of three-character categories)
2. Sub-categories-177 (Group of 3/4-character categories and 3/4 -character single category) &

### Major Group XX: External Causes of Morbidity & Mortality

3. Categories-11 (Group of three-character categories)
4. Sub-categories-16 (Group of 3/4-character categories and 3/4 -character single category)

### The descriptions for all Major Groups of the National list based on ICD-10 are as under

Major Cause Groups	Description and ICD codes
I	Certain Infectious and parasitic diseases (A00-B99)
II	Neoplasms (C00-D48)
III	Diseases of the blood and blood forming organs and certain disorders involving the immune mechanism (D50-D89)
IV	Endocrine, nutritional and metabolic diseases (E00-E89)
V	Mental and behavioural disorders (F01-F99)
VI	Diseases of the nervous system (G00-G98)
VII	Diseases of the eye and Adnexa (H00-H59)
VIII	Diseases of the ear and mastoid process (H60-H95)
IX	Diseases of the circulatory system (I00-I99)
X	Diseases of the respiratory system (J00-J98)
XI	Diseases of the digestive system (K00-K92)
XII	Diseases of the skin and subcutaneous tissue (L00-L98)
XIII	Diseases of the musculoskeletal system and connective tissue (M00-M99)
XIV	Diseases of the genitourinary system (N00-N99)
XV	Pregnancy, childbirth and the puerperium (O00-O99)
XVI	Certain conditions originating in the perinatal period (P00-P96)
XVII	Congenital malformation, deformation and chromosomal abnormalities (Q00-Q99)
XVIII	Symptoms, signs and abnormal clinical and laboratory findings, n.e.c. (R00-R99)
XIX	Injury, poisoning and certain other consequences of external causes (S00-T98)
XX	External causes of morbidity and mortality (V01-Y89)
XXI*	Factors influencing health status and contact with health services (Z00-Z99)

\* Not in use in India.

## Appendix - V

# NATIONAL LIST FOR TABULATION OF MORTALITY & MORBIDITY BASED ON THE TENTH REVISION OF INTERNATIONAL CLASSIFICATION OF DISEASES (ICD)

Major Group No.	CAUSE OF DEATH ICD-10 CODES
<b>I. CERTAIN INFECTIOUS AND PARASITIC DISEASES</b>	<b>A00-B99</b>
<b>1 Intestinal infectious diseases</b>	<b>A00-A09</b>
1 Cholera	A00
2 Typhoid fever and paratyphoid fevers	A01
3 Food poisoning	A02, A05
4 Shigellosis	A03
5 Amoebiasis	A06
6 Diarrhoea and gastroenteritis of presumed infectious origin	A09
7 Other intestinal infectious diseases	A04, A07-A08
<b>2 Tuberculosis</b>	<b>A15-A19</b>
1 Respiratory tuberculosis	A15-A16
2 Tuberculosis of nervous system	A17
3 Tuberculosis of other organs & miliary tuberculosis	A18-A19
<b>3 Other bacterial diseases</b>	<b>A20-A49</b>
1 Plague	A20
2 Leprosy	A30
3 Neonatal tetanus	A33
4 Other tetanus	A34-A35
5 Diphtheria	A36
6 Whooping cough	A37
7 Meningococcal infection	A39
8 Septicaemia	A40-A41

9 All other types of bacterial diseases A49	A21-A28, A31-A32, A38, A42- A49
<b>4 Infections with a predominantly sexual mode of transmission</b>	<b>A50-A64</b>
1 Syphilis	A50-A53
2 Other types of infections with a predominantly sexual mode of transmission	A54-A64
<b>5 Viral diseases</b>	<b>A70-A74 &amp; A80-B34</b>
1 Acute poliomyelitis	A80
2 Rabies	A82
3 Japanese encephalitis	A83
4 Other viral encephalitis	A82.1-A82.9, A84-A86
5 Dengue fever	A90
6 Other arthropod-borne viral fevers and viral haemorrhagic fevers	A91-A94, A96-A99
7 Smallpox	B03
8 Measles	B05
9 Acute Hepatitis	B16
10 Other viral hepatitis	B15, B17-B19
11 Human immunodeficiency virus [HIV] disease	B20-B24
12 All other types of viral diseases A95,	A70-A74, A81, A87-A89, B00-B02, B04, B06-B09 & B25-B346
<b>6 Protozoal diseases</b>	<b>B50-B64</b>
1 Malaria	B50-B54
2 All other types of protozoal diseases	B55-B64
<b>7 Other certain infectious &amp; parasitic diseases and late effects of infectious &amp; parasitic diseases</b>	<b>A65-A69 &amp; A75-A79, B35-B49</b>
1 Filariasis	B74
2 Other helminthiasis	B65-B73, B75, B77-B83
3 Other spirochaetal diseases and Rickettsioses	A65-A69 & A75-A79
4 All other infectious & parasitic diseases and late effects of infectious & parasitic diseases	B35-B49, B76, B85-B99
<b>II. NEOPLASMS</b>	<b>C00-D48</b>
<b>8 Malignant neoplasms of lip, oral cavity and pharynx</b>	<b>C00-C14</b>

<b>9 Malignant neoplasms of digestive organs</b>	<b>C15-C26</b>
1 Malignant neoplasm of oesophagus	C15
2 Malignant neoplasm of stomach	C16
3 Malignant neoplasm of small intestine including Duodenum	C17
4 Malignant neoplasm of colon	C18
5 Malignant neoplasm of recto sigmoid junction, rectum, anus and anal canal	C19-C21
6 Malignant neoplasm of liver and intrahepatic bile ducts	C22
7 Malignant neoplasm of pancreas	C25
8 Other malignant neoplasms of digestive organs	C23-C24, C26
<b>10 Malignant neoplasms of respiratory and intrathoracic Organs</b>	<b>C30-C39</b>
1 Malignant neoplasm of larynx	C32
2 Malignant neoplasm of trachea, bronchus and lung	C33-C34
3 Other malignant neoplasm of respiratory and intrathoracic organs	C30-C31, C37-C39
<b>11 Malignant neoplasms of bone, mesothelial and soft tissue, skin and breast</b>	<b>C40-C50</b>
1 Malignant neoplasm of bone and articular cartilage	C40-C41
2 Malignant melanoma of skin	C43
3 Other malignant neoplasms of skin	C44
4 Malignant neoplasms of mesothelial and soft tissue	C45-C49
5 Malignant neoplasm of breast	C50
<b>12 Malignant neoplasms of genitourinary organs</b>	<b>C51-C68</b>
1 Malignant neoplasm of cervix uteri	C53
2 Malignant neoplasm of other and unspecified parts of Uterus	C54-C55
3 Malignant neoplasm of ovary	C56
4 Malignant neoplasm of placenta	C58
5 Other malignant neoplasms of female genital organs	C51-C52, C57
6 Malignant neoplasm of prostate	C61
7 Other malignant neoplasms of male genital organs	C60, C62-C63
8 Malignant neoplasm of bladder	C67
9 Other malignant neoplasms of urinary tract	C64-C66, C68
<b>13 Malignant neoplasms of eye, brain and other parts of central nervous system</b>	<b>C69-C72</b>
1 Malignant neoplasm of eye & adnexa	C69
2 Malignant neoplasm of meninges, brain and other parts	

of central nervous system	C70-C72
<b>14 Malignant neoplasms of other and unspecified sites</b>	<b>C73-C80 &amp; C97</b>
<b>15 Malignant neoplasms of lymphoid, haematopoietic and related tissue</b>	<b>C81-C96</b>
1 Hodgkin's disease	C81
2 Non-Hodgkin's lymphoma	C82-C85
3 Multiple myeloma and malignant plasma cell neoplasms	C90
4 Leukaemia	C91-C95
5 Other malignant neoplasms of lymphoid, haematopoietic and related tissue	C88 & C96
<b>16 Carcinoma in situ</b>	<b>D00-D09</b>
<b>17 Benign neoplasms</b>	<b>D10-D36</b>
1 Leiomyoma of uterus	D25
2 All other benign neoplasms	D10-D24 & D26-D36
<b>18 Other and unspecified neoplasm</b>	<b>D37-D48</b>
<b>III. DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS AND CERTAIN DISORDERS INVOLVING THE IMMUNE MECHANISMD50-D89</b>	
<b>19 Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism</b>	<b>D50-D89</b>
1 Thalassaemia	D56
2 Other anaemias	D50-D55, D57-D64
3 All other diseases of blood and blood-forming organs	D65-D76
4 Certain disorders involving the immune mechanism	D80-D89
<b>IV. ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES E00-E89</b>	
<b>20 Malnutrition</b>	<b>E40-E46</b>
1 Kwashiorkor	E40
2 Nutritional marasmus	E41
3 Other protein-energy malnutrition	E42-E46
<b>21 Endocrine, other nutritional and metabolic diseases</b>	<b>E00-E34 &amp; E50-E89</b>
1 Disorders of thyroid gland	E00-E07
2 Diabetes mellitus	E10-E14
3 All other nutritional deficiencies	E50-E64
4 All other endocrine and metabolic diseases	E15-E34 & E65-E89

<b>V. MENTAL AND BEHAVIOURAL DISORDERS</b>	<b>F01-F99</b>
<b>22 Mental and behavioural disorders</b>	<b>F01-F99</b>
1 Mental and behavioural disorders due to psychoactive substance use	F10-F19
2 Schizophrenia, schizotypal & delusional disorders	F20-F29
3 All other mental and behavioural disorders	F01-F09, F30-F99
<b>VI. DISEASES OF THE NERVOUS SYSTEM</b>	<b>G00-G98</b>
<b>23 Inflammatory diseases of the central nervous system</b>	<b>G00-G09</b>
1 Meningitis	G00 & G03
2 Encephalitis, myelitis and encephalomyelitis	G04
3 Other inflammatory diseases of the central nervous System	G06, G08-G09
<b>24 Other diseases of the nervous system</b>	<b>G10-G98</b>
1 Alzheimer's disease G30	
2 Epilepsy	G40-G41
3 All other diseases of the nervous system	G10-G25, G31, G35-G37, G43-G98
<b>VII. DISEASES OF THE EYE AND ADNEXA</b>	<b>H00-H59</b>
<b>25 Disease of the eye and adnexa</b>	<b>H00-H59</b>
<b>VIII. DISEASES OF THE EAR AND MASTOID PROCESS</b>	<b>H60-H95</b>
<b>26 Diseases of the ear and mastoid process</b>	<b>H60-H93</b>
<b>IX. DISEASES OF THE CIRCULATORY SYSTEM</b>	<b>I00-I99</b>
<b>27 Acute rheumatic fever and chronic rheumatic heart Diseases</b>	<b>I00-I09</b>
1 Acute rheumatic fever	I00-I02
2 Chronic rheumatic heart diseases	I05-I09
<b>28 Hypertensive diseases</b>	<b>I10-I15</b>
1 Hypertensive heart disease	I11
2 All other hypertensive diseases	I10, I12-I15
<b>29 Ischaemic heart diseases</b>	<b>I20-I25</b>
1 Acute myocardial infarction	I21-I22
2 All other ischaemic heart diseases	I20 & I23-I25

<b>30 Diseases of pulmonary circulation and other forms of heart disease</b>	<b>I26-I51</b>
1 Pulmonary heart disease and diseases of pulmonary Circulation	I26-I28
2 Other forms of heart diseases	I30-I51
<b>31 Cerebrovascular diseases</b>	<b>I60-I69</b>
<b>32 Other diseases of the circulatory system</b>	<b>I70-I99</b>
1 Atherosclerosis	I70
2 Arterial embolism and thrombosis	I74
3 Other diseases of arteries, arterioles & capillaries	I71-I73 & I77-I78
4 Phlebitis, thrombophlebitis, venous embolism and thrombosis	I80-I82
5 All other diseases of the circulatory system	I83-I99
<b>X. DISEASES OF THE RESPIRATORY SYSTEM</b>	<b>J00-J98</b>
<b>33 Diseases of the upper respiratory tract</b>	<b>J00-J06 &amp; J30-J39</b>
1 Acute pharyngitis and acute tonsillitis	J02-J03
2 Acute laryngitis and tracheitis	J04
3 Other acute upper respiratory infections	J00-J01 & J05-J06
4 All other diseases of upper respiratory tract	J30-J39
<b>34 Lower respiratory diseases</b>	<b>J20-J22 &amp; J40-J47</b>
1 Acute bronchitis and acute bronchiolitis	J20-J21
2 Bronchitis, chronic and unspecified, emphysema	J40-J43
3 Asthma	J45-J46
4 Other lower respiratory disorders	J22, J44 & J47
<b>35 Other diseases of the respiratory system</b>	<b>J10-J18, J60-J98</b>
1 Influenza	J10-J11
2 Pneumonia	J12-J18
3 Pleurisy	J90
4 All other diseases of the respiratory system	J60-J86, J92-J98.
<b>XI. DISEASES OF THE DIGESTIVE SYSTEM</b>	<b>K00-K92</b>
<b>36 Diseases of oral cavity, salivary glands and jaws</b>	<b>K00-K14</b>
<b>37 Diseases of the other parts of digestive system</b>	<b>K20-K92</b>

1 Gastric and duodenal ulcer	K25-K27
2 Gastritis and duodenitis	K29
3 Diseases of appendix	K35-K38
4 Hernia	K40-K46
5 Paralytic ileus and intestinal obstruction without hernia	K56
6 Peritonitis	K65
7 Diseases of the liver	K70-K76
8 Cholelithiasis and cholecystitis	K80-K81
9 Disorders of the pancreas	K85-K86
10 All other diseases of the other parts of digestive system	K20-K22, K28, K30-K31, K50-K55, K57-K63, K66, K82-K83 & K90-K92
<b>XII. DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE L00-L98</b>	
<b>38 Diseases of the skin and subcutaneous tissue</b>	<b>L00-L98</b>
1 Infections of the skin and subcutaneous tissue	L00-L08
2 All other diseases of the skin and subcutaneous tissue	L10-L98
<b>XIII. DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE M00-M99</b>	
<b>39 Diseases of the musculoskeletal system and connective tissue</b>	<b>M00-M99</b>
1 Rheumatoid arthritis and other inflammatory Polyarthropathies	M05-M13
2 Osteomyelitis	M86
3 All other diseases of the musculoskeletal system and connective tissue	M00-M02, M15-M85, M87-M99
<b>XIV. DISEASES OF THE GENITOURINARY SYSTEM N00-N99</b>	
<b>40 Diseases of urinary system</b>	<b>N00-N39</b>
1 Glomerular diseases (including Nephritic Syndrome)	N00-N07
2 Renal tubulo-interstitial diseases	N10-N15
3 Renal failure	N17-N19
4 Urolithiasis	N20-N23
5 Other disorders of kidney and ureter	N25-N28
6 All other diseases of urinary system	N30-N39
<b>41 Other diseases of the genitourinary system</b>	<b>N40-N99</b>
1 Hyperplasia of prostate	N40

2 All other diseases of male genital organs	N41-N50
3 Salpingitis and oophoritis	N70
4 All other diseases of female genital organs	N60-N64 & N71-N99
<b>XV. PREGNANCY, CHILDBIRTH AND THE PUERPERIUM 000-099</b>	
<b>42 Pregnancy with abortive outcome</b>	<b>000-008</b>
1 Spontaneous abortion	O03
2 Medical abortion	O04
3 Other pregnancies with abortive outcome	O00-O02 & O05-O08
<b>43 Other direct obstetric deaths</b>	<b>O10-O92</b>
1 Oedema, proteinuria and hypertensive disorders in pregnancy, childbirth and the puerperium	O10-O16
2 Infections of genitourinary tract in pregnancy	O23
3 Obstructed labour	O64-O66
4 Complications pre-dominantly related to the puerperium	O85-O92
5 Other complications of pregnancy and delivery	O20-O22, O24-O63 & O67-O84
<b>44 Other obstetric conditions, not elsewhere classified</b>	<b>O95-O99</b>
1 Indirect obstetric deaths	O98-O99
2 All other obstetric conditions, not elsewhere classified	O95-O97
<b>XVI. CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD P00-P96</b>	
<b>45 Certain conditions originating in the perinatal period</b>	<b>P00-P96</b>
1 Slow foetal growth, foetal malnutrition and immaturity	P05-P07
2 Birth trauma	P10-P15
3 Hypoxia, birth asphyxia and other respiratory conditions	P20-P28
4 Haemolytic disease of foetus and new-born	P55
5 Other perinatal jaundice	P58-P59
6 All other conditions originating in the perinatal period	P00-P04, P08, P29-P54, P56-P57, P60-P96.
<b>XVII. CONGENITAL MALFORMATIONS, DEFORMATIONS AND CHROMOSOMAL ABNORMALITIES Q00-Q99</b>	
<b>46 Congenital malformations, deformations and chromosomal abnormalities</b>	<b>Q00-Q99</b>
1 Spina bifida	Q05
2 Congenital malformations of the circulatory system	Q20-Q28
3 Cleft lip and cleft palate	Q35-Q37
4 All other congenital malformations, deformations and chromosomal abnormalities, not elsewhere classified	Q00-Q04, Q06-Q18,

	Q30-Q34 & Q38-Q99
<b>XVIII. SYMPTOMS, SIGNS AND ABNORMAL CLINICAL AND LABORATORY FINDINGS, NOT ELSEWHERE CLASSIFIED</b>	<b>R00-R99</b>
<b>47 Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified</b>	<b>R00-R99</b>
1 Abdominal and pelvic pain	R10
2 Ascites	R18
3 Somnolence, stupor and coma	R40
4 Fever of unknown origin	R50
5 Senility	R54
6 Syncope and collapse	R55
7 Convulsions, not elsewhere classified	R56
8 Shock, not elsewhere classified	R57
9 All other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	R00-R09, R11-R17, R19-R39 R41- R49, R51-R53, R58-R99
<b>XIX. INJURY, POISONING AND CERTAIN OTHER CONSEQUENCES OF EXTERNAL CAUSES</b>	<b>S00-T98</b>
<b>48 Fractures</b>	<b>S02, S12, S22, S32, S42, S52, S62, S72, S82, S92, T02, T08, T10 &amp; T12</b>
1 Fracture of skull and facial bones	S02
2 Fracture of neck, thorax or pelvis	S12, S22, S32 & T08
3 Fracture of upper limb	S42, S52, S62 & T10
4 Fractures of lower limb	S72, S82, S92 & T12
5 Fractures involving multiple body regions and of unspecified body region	T02
<b>49 Dislocations, sprains and strains of specified and multiple body regions</b>	<b>S03, S13, S23, S33, S43, S53, S63, S73, S83, S93, T03</b>
<b>50 Intracranial and internal injuries, including nerves</b>	<b>S04, S06, S14, S24, S26-S27, S34, S36-S37, S44, S54, S64, S74, S84 &amp; S94</b>
<b>51 Crushing injuries and traumatic amputations of specified and multiple body regions</b>	<b>S07-S08, S17-S18, S28, S38, S47-S48, S57-S58, S67-S68, S77-S78, S87-S88, S97-S98, T04-T05</b>

<b>52 Other injuries of specified, unspecified and multiple body regions</b>	<b>S00-S01, S05, S09-S11,S15-S16, S19-S21, S25,</b>
	<b>S29-S31, S35,S39-S41, S45-S46, S49-S51,S55-S56, S59-S61, S65-S66,S69-S71, S75-S76, S79-S81,S85-S86, S89-S91, S95-S96, S99, T00-T01, T06-T07, T09, T11,T13-T14</b>
<b>53 Effects of foreign body entering through natural orifice</b>	<b>T15-T19</b>
<b>54 Burns and Corrosions</b>	<b>T20-T32</b>
<b>55 Poisonings by drugs &amp; biological substances; and Toxic effects of substances chiefly non-medicinal as to source</b>	<b>T36-T50 &amp; T51-T65</b>
<b>56 Other and unspecified effects of external causes and certain early complications of trauma</b>	<b>T33-T35, T66-T79</b>
<b>57 Complications of Surgical and Medical care, not elsewhere classified</b>	<b>T80-T88</b>
<b>58 Late effects of injuries, of poisoning and of other consequences of external causes</b>	<b>T90-T98</b>
<b>XX. EXTERNAL CAUSES OF MORBIDITY AND MORTALITY</b>	<b>V01-Y89</b>
<b>E48 Transport accidents</b>	<b>V01-V99</b>
1 Railway accidents	V05, V15, V80.6, V81,
V82.2,	V87.6& V88.6
2 Motor vehicle traffic accidents	V02-V04, V09.2-V09.3, V12-
V14,	V19.4-V19.6, V19.9, V20-V28,
	V29.4-V29.6, V29.9, V30-V38,
	V39.4-V39.6, V39.9, V40-V48,
	V49.4-V49.6, V49.9, V50-V58,
	V59.4-V59.6, V59.9, V60-V68,
	V69.4-V69.6, V69.9, V70-V78,
	V79.4- V79.6, V79.9, V80.3-
V80.5,	V82.1, V87.0-V87.5, V87.7-
87.9,	V89.2-V89.3
3 Other road vehicle accidents	V01, V06, V09.9, V10-

V11,	V16-V18, V19.8, V29.8,
V39.8,	V49.8, V59.8, V69.8, V79.8, V80.0-V80.2, V80.7-V80.9, V82.3-V82.7, V82.9 &
V89.1	
4 Water transport accidents	V90-V94
5 Air & Space transport accidents	V95-V97
6 All other transport accidents	V09.0-V09.1, V19.0-
V19.3,	V29.0-V29.3, V39.0-V39.3, V49.0-V49.3, V59.0-V59.3, V69.0-V69.3, V79.0-V79.3 V82.0, V82.8, V83-V86, V88.0-V88.5, V88.7-V88.9, V89.0, V89.9, V98-V99
<b>E49 Accidental Falls</b>	<b>W00-W19</b>
<b>E50 Accidental drowning and submersion</b>	<b>W65-W74</b>
<b>E51 Exposure to smoke, fire and flames</b>	<b>X00-X09</b>
<b>E52 Accidental poisoning by and exposure to noxious substances</b>	<b>X40-X49</b>
<b>E53 Intentional self-harm (Suicide- attempted)</b>	<b>X60-X84</b>
<b>E54 Assault (Homicide)</b>	<b>X85-Y09</b>
<b>E55 Other Violence</b>	<b>Y10-Y36</b>
1 Event of undetermined intent	Y10-Y34
2 Legal intervention	Y35
3 Operations of war	Y36
<b>E56 Complications of medical and surgical care</b>	<b>Y40-Y84</b>
1 Drugs, medicaments and biological substances causing adverse effects in therapeutic use	Y40-Y59
2 Misadventures during surgical & medical care, adverse incidents in diagnostic and therapeutic use, abnormal reactions and late complications	Y60-Y69, Y70-Y82 & Y83-
Y84	
<b>E57 Other external causes of accidental injury, not elsewhere Classified</b>	<b>W20-W64, W75-W99, X10-X39, X50-X59</b>
<b>X59</b>	
1 Accidents caused by machinery, and by cutting &	

piercing instruments	W24-W31
2 Accidents caused by firearm missile	W32-W34
3 Bites of snakes & other venomous animals	X20-X27
4 Sun stroke	X32
5 All other accidents including late effects W99,	W20-W23, W35-W64, W75- X10-X19, X28-X31, X33-X39 & X50-X59
<b>E58 Late effects of external causes of morbidity and mortality</b>	<b>Y85-Y89</b>

Appendix-VI

TABLE - CENTER WISE CAUSE OF DEATH UNDER MAJOR CAUSE GROUP

M.G/ CAT./ S.C	CAUSE OF DEATH	SEX	Centers					Total
			Trivandrum	Kollam	Kochi	Kozhikode	Alappuzha	
1	2	3	4	5	6	7	8	9
I.	CERTAIN INFECTIOUS AND PARASITIC DISEASES (A00-B99)	M	210	30	120	311	58	729
		F	97	15	76	196	31	415
		T	307	45	196	507	89	1144
II.	NEOPLASMS (C00-D48)	M	789	173	839	992	292	3085
		F	680	118	484	593	171	2046
		T	1469	291	1323	1585	463	5131
III.	DISEASES OF THE BLOOD AND BLOOD- FORMING ORGANS AND CERTAIN DISORDERS INVOLVING THE IMMUNE MECHANISM ( D50-D89)	M	43	1	42	47	14	147
		F	35	4	49	56	13	157
		T	78	5	91	103	27	304
		F	0	0	5	0	0	5
		T	1	0	5	4	1	11
IV.	ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES (E00-E89)	M	781	25	417	1252	151	2626
		F	725	23	332	854	151	2085
		T	1506	48	749	2106	302	4711
V.	MENTAL AND BEHAVIOURAL DISORDERS ( F01-F99)	M	4	0	0	9	0	13
		F	0	0	0	6	0	6
		T	4	0	0	15	0	19
VI.	DISEASES OF THE NERVOUS SYSTEM ( G00-G98)	M	87	2	35	145	11	280
		F	60	7	26	137	11	241
		T	147	9	61	282	22	521
		T	2	0	1	7	1	11
		T	93	6	49	224	13	385
VII.	DISEASES OF THE EYE AND ADNEXA (H00-H59)	M	2	0	0	0	0	2
		F	0	0	0	0	0	0
		T	2	0	0	0	0	2
		T	2	0	0	0	0	2
VIII.	DISEASES OF THE EAR AND MASTOID PROCESS (H60-H95)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
IX.	DISEASES OF THE CIRCULATORY SYSTEM ( I00-I99)	M	1245	404	1346	2012	785	5792
		F	865	282	866	1436	645	4094
		T	2110	686	2212	3448	1430	9886

X.	DISEASES OF THE RESPIRATORY SYSTEM (J00-J98)	M	476	191	338	714	345	2064
		F	271	106	186	365	141	1069
		T	747	297	524	1079	486	3133
		T	538	234	332	798	367	2269
		F	47	19	24	62	32	184
		T	81	47	60	131	70	389
XI.	DISEASES OF THE DIGESTIVE SYSTEM (K00-K92)	M	356	73	445	542	200	1616
		F	94	19	161	178	49	501
		T	450	92	606	720	249	2117
XII.	DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE (L00-L98)	M	18	1	0	17	0	36
		F	12	1	0	12	0	25
		T	30	2	0	29	0	61
		T	11	1	0	7	0	19
XIII.	DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE ( M00-M99)	M	28	2	4	17	1	52
		F	41	2	8	42	3	96
		T	69	4	12	59	4	148
XIV.	DISEASES OF THE GENITOURINARY SYSTEM ( N00-N99)	M	176	97	8	312	3	596
		F	104	57	4	187	0	352
		T	280	154	12	499	3	948
XV.	PREGNANCY, CHILDBIRTH AND THE PUERPERIUM ( O00-O99)	F	4	1	0	9	0	14
		T	4	1	0	9	0	14
XVI.	CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD ( P00-P96)	M	131	7	53	157	17	365
		F	106	7	34	150	14	311
		T	237	14	87	307	31	676
XVII.	CONGENITAL MALFORMATIONS, DEFORMATIONS AND CHROMOSOMAL ABNORMALITIES ( Q00-Q99)	M	78	0	59	158	6	301
		F	69	0	39	126	7	241
		T	147	0	98	284	13	542
XVIII.	SYMPTOMS, SIGNS AND ABNORMAL CLINICAL AND LABORATORY FINDINGS,NOT ELSEWHERE CLASSIFIED ( R00-R99)	M	498	20	90	114	201	923
		F	178	25	40	35	74	352
		T	676	45	130	149	275	1275
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
		T	3	0	0	1	0	4

<b>XIX.</b>	<b>INJURY, POISONING AND CERTAIN OTHER CONSEQUENCES OF EXTERNAL CAUSES ( S00-T98)</b>	<b>M</b>	131	26	103	536	15	811
		<b>F</b>	48	9	38	193	14	302
		<b>T</b>	179	35	141	729	29	1113
		<b>F</b>	7	6	0	0	0	13
		<b>T</b>	36	31	0	1	0	68
		<b>F</b>	0	0	0	0	0	0
		<b>T</b>	0	0	0	2	0	2
		<b>T</b>	13	0	6	99	0	118
<b>XX.</b>	<b>EXTERNAL CAUSES OF MORBIDITY AND MORTALITY ( V01-Y89)</b>	<b>M</b>	129	27	114	535	17	822
		<b>F</b>	50	10	47	194	13	314
		<b>T</b>	179	37	161	729	30	1136
<b>ALL CAUSES ( MAJOR GROUP I to XIX)</b>	<b>M</b>	5053	1052	3899	7335	2099	19438	
	<b>F</b>	3389	676	2343	4575	1324	12307	
	<b>T</b>	8442	1728	6242	11910	3423	31745	
<b>ALL CAUSES ( MAJOR GROUP I to XX)</b>	<b>M</b>	5182	1079	4013	7870	2116	20260	
	<b>F</b>	3439	686	2390	4769	1337	12621	
	<b>T</b>	8621	1765	6403	12639	3453	32881	

Appendix-VII								
TABLE - CENTER WISE CAUSE OF DEATH BY AGE AND SEX								
M.G/ CAT./ S.C	CAUSE OF DEATH	SEX	Centers					Total
			Trivandrum	Kollam	Kochi	Kozhikode	Alappuzha	
1	2	3	4	5	6	7	8	9
I.	<b>CERTAIN INFECTIOUS AND PARASITIC DISEASES (A00-B99)</b>	<b>M</b>	210	30	120	311	58	729
		<b>F</b>	97	15	76	196	31	415
		<b>T</b>	307	45	196	507	89	1144
1	<b>Intestinal infectious diseases (A00-A09)</b>	<b>M</b>	7	3	0	11	0	21
		<b>F</b>	7	0	0	21	0	28
		<b>T</b>	14	3	0	32	0	49
1	Cholera ( A00)	<b>M</b>	0	0	0	0	0	0
		<b>F</b>	0	0	0	0	0	0
		<b>T</b>	0	0	0	0	0	0
2	Typhoid fever and paratyphoid fevers (A01)	<b>M</b>	0	0	0	0	0	0
		<b>F</b>	0	0	0	0	0	0
		<b>T</b>	0	0	0	0	0	0
3	Food poisoning (A02, A05)	<b>M</b>	0	0	0	0	0	0
		<b>F</b>	0	0	0	0	0	0
		<b>T</b>	0	0	0	0	0	0
4	Shigellosis (A03)	<b>M</b>	0	0	0	1	0	1
		<b>F</b>	0	0	0	0	0	0
		<b>T</b>	0	0	0	1	0	1
5	Amoebiasis ( A06)	<b>M</b>	0	0	0	0	0	0
		<b>F</b>	0	0	0	0	0	0
		<b>T</b>	0	0	0	0	0	0
6	Diarrhoea and gastroenteritis of presumed infectious origin (A09)	<b>M</b>	7	3	0	10	0	20
		<b>F</b>	7	0	0	21	0	28
		<b>T</b>	14	3	0	31	0	48
7	Other intestinal infectious diseases (A04,A07-A08)	<b>M</b>	0	0	0	0	0	0
		<b>F</b>	0	0	0	0	0	0
		<b>T</b>	0	0	0	0	0	0
2	<b>Tuberculosis (A15-A19)</b>	<b>M</b>	43	7	13	79	7	149
		<b>F</b>	18	4	7	42	3	74
		<b>T</b>	61	11	20	121	10	223

M.G/ CAT./ S.C	CAUSE OF DEATH	SEX	Trivandrum	Kollam	Kochi	Kozhikode	Alappuzha	Total
1	Respiratory tuberculosis (A15-A16)	M	36	6	13	57	6	118
		F	14	4	7	20	3	48
		T	50	10	20	77	9	166
2	Tuberculosis of nervous system (A17)	M	4	1	0	7	1	13
		F	1	0	0	12	0	13
		T	5	1	0	19	1	26
3	Tuberculosis of other organs & miliary tuberculosis (A18-A19)	M	3	0	0	15	0	18
		F	3	0	0	10	0	13
		T	6	0	0	25	0	31
3	<b>Other bacterial diseases (A20-A49)</b>	<b>M</b>	72	19	100	85	49	325
		<b>F</b>	39	9	63	58	28	197
		<b>T</b>	111	28	163	143	77	522
1	Plague (A20)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
2	Leprosy (A30)	M	0	0	0	0	0	0
		F	0	0	0	1	0	1
		T	0	0	0	1	0	1
3	Neonatal tetanus (A33)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
4	Other tetanus (A34-A35)	M	2	0	0	2	0	4
		F	0	0	0	1	0	1
		T	2	0	0	3	0	5
5	Diphtheria (A36)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
6	Whooping cough (A37)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
7	Meningococcal infection (A39)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
8	Septicaemia (A40-A41)	M	53	19	90	51	42	255
		F	37	9	61	46	23	176
		T	90	28	151	97	65	431

M.G/ CAT./ S.C	CAUSE OF DEATH	SEX	Trivandrum	Kollam	Kochi	Kozhikode	Alappuzha	Total
9	All other types of bacterial diseases (A21-A28,A31-A32,A38,A42-A49)	M	17	0	10	32	7	66
		F	2	0	2	10	5	19
		T	19	0	12	42	12	85
4	Infections with a predominantly sexual mode of transmission (A50-A64)	M	1	0	0	0	0	1
		F	0	0	0	0	0	0
		T	1	0	0	0	0	1
1	Syphilis (A50-A53)	M	1	0	0	0	0	1
		F	0	0	0	0	0	0
		T	1	0	0	0	0	1
2	Other types of infections with a predominantly sexual mode of transmission (A54-A64)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
5	Viral diseases (A70-A74 & A80-B34)	M	39	1	7	41	2	90
		F	21	2	5	23	0	51
		T	60	3	12	64	2	141
1	Acute poliomyelitis (A80)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
2	Rabies (A82)	M	2	0	0	1	0	3
		F	0	0	0	0	0	0
		T	2	0	0	1	0	3
3	Japanese encephalitis (A83.0)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
4	Other viral encephalitis (A83.1-A83.9,A84-A86)	M	5	0	0	2	0	7
		F	1	0	0	3	0	4
		T	6	0	0	5	0	11
5	Dengue fever (A90)	M	4	0	2	6	1	13
		F	2	2	1	3	0	8
		T	6	2	3	9	1	21
6	Other arthropod-borne viral fevers and viral haemorrhagic fevers (A91-A94, A96-A99)	M	2	0	1	1	0	4
		F	2	0	0	0	0	2
		T	4	0	1	1	0	6

M.G/ CAT./ S.C	CAUSE OF DEATH	SEX	Trivandrum	Kollam	Kochi	Kozhikode	Alappuzha	Total
7	Smallpox (B03)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
8	Measles (B05)	M	0	0	0	0	0	0
		F	1	0	0	0	0	1
		T	1	0	0	0	0	1
9	Acute Hepatitis B (B16)	M	9	1	0	2	0	12
		F	2	0	0	1	0	3
		T	11	1	0	3	0	15
10	Other viral hepatitis (B15, B17-B19)	M	5	0	1	7	0	13
		F	1	0	1	2	0	4
		T	6	0	2	9	0	17
11	Human immunodeficiency virus [HIV] disease (B20-B24)	M	9	0	3	17	1	30
		F	10	0	3	11	0	24
		T	19	0	6	28	1	54
12	All other types of viral diseases (A70-A74,A81, A87-A89,A95,B00- B02,B04,B06-B09 & B25-B34)	M	3	0	0	5	0	8
		F	2	0	0	3	0	5
		T	5	0	0	8	0	13
6	Protozoal diseases (B50-B64)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
1	Malaria (B50-B54)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
2	All other types of protozoal diseases (B55-B64)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
7	Other certain infectious & parasitic diseases and late effects of infectious & parasitic diseases( A65-A69 & A75-A79,B35-B49,B65- B99)	M	48	0	0	95	0	143
		F	12	0	1	52	0	65
		T	60	0	1	147	0	208
1	Filariasis (B74)	M	1	0	0	0	0	1
		F	0	0	0	0	0	0
		T	1	0	0	0	0	1

M.G/ CAT./ S.C	CAUSE OF DEATH	SEX	Trivandrum	Kollam	Kochi	Kozhikode	Alappuzha	Total
2	Other helminthiasis ( B65-B73,B75,B77-B83)	M	1	0	0	1	0	2
		F	0	0	0	0	0	0
		T	1	0	0	1	0	2
3	Other spirochaetal diseases and Rickettsioses (A65-A69 & A75-A79)	M	0	0	0	1	0	1
		F	1	0	0	1	0	2
		T	1	0	0	2	0	3
4	All other infectious & parasitic diseases and late effects of infectious & parasitic diseases (B35-B49,B76, B85-B99)	M	46	0	0	93	0	139
		F	11	0	1	51	0	63
		T	57	0	1	144	0	202
II.	<b>NEOPLASMS (C00-D48)</b>	<b>M</b>	789	173	839	992	292	3085
		<b>F</b>	680	118	484	593	171	2046
		<b>T</b>	1469	291	1323	1585	463	5131
8	<b>Malignant neoplasms of lip, oral cavity and pharynx (C00-C14)</b>	<b>M</b>	57	22	54	46	36	215
		<b>F</b>	15	4	17	24	5	65
		<b>T</b>	72	26	71	70	41	280
1	Malignant neoplasms of lip, oral cavity and pharynx (C00-C14)	M	57	22	54	46	36	215
		F	15	4	17	24	5	65
		T	72	26	71	70	41	280
9	<b>Malignant neoplasms of digestive organs (C15-C26)</b>	<b>M</b>	193	57	346	339	67	1002
		<b>F</b>	102	25	120	146	25	418
		<b>T</b>	295	82	466	485	92	1420
1	Malignant neoplasm of oesophagus ( C15)	M	22	6	31	48	14	121
		F	10	3	5	18	1	37
		T	32	9	36	66	15	158
2	Malignant neoplasm of stomach (C16)	M	28	9	52	72	15	176
		F	12	4	18	29	5	68
		T	40	13	70	101	20	244
3	Malignant neoplasm of small intestine including duodenum (C17)	M	0	1	0	0	2	3
		F	0	0	1	2	0	3
		T	0	1	1	2	2	6
4	Malignant neoplasm of colon (C18)	M	13	5	46	24	5	93
		F	22	4	25	23	5	79
		T	35	9	71	47	10	172

M.G/ CAT./ S.C	CAUSE OF DEATH	SEX	Trivandrum	Kollam	Kochi	Kozhikode	Alappuzha	Total
5	Malignant neoplasm of rectosigmoid junction, rectum,anus and anal canal (C19-C21)	M	32	6	33	34	6	111
		F	20	7	13	17	5	62
		T	52	13	46	51	11	173
6	Malignant neoplasm of liver and intrahepatic bile ducts (C22)	M	69	21	147	119	21	377
		F	18	1	35	24	4	82
		T	87	22	182	143	25	459
7	Malignant neoplasm of pancreas (C25)	M	20	9	24	28	4	85
		F	13	6	16	19	3	57
		T	33	15	40	47	7	142
8	Other malignant neoplasms of digestive organs (C23-C24,C26)	M	9	0	13	14	0	36
		F	7	0	7	14	2	30
		T	16	0	20	28	2	66
10	<b>Malignant neoplasms of respiratory and intrathoracic organs (C30-C39)</b>	<b>M</b>	160	55	178	277	112	782
		<b>F</b>	42	17	30	40	13	142
		<b>T</b>	202	72	208	317	125	924
1	Malignant neoplasm of larynx (C32)	M	17	10	23	14	20	84
		F	0	0	1	2	0	3
		T	17	10	24	16	20	87
2	Malignant neoplasm of trachea, bronchus and lung (C33-C34)	M	142	45	152	261	91	691
		F	42	17	26	38	13	136
		T	184	62	178	299	104	827
3	Other malignant neoplasm of respiratory and intrathoracic organs ( C30-C31, C37-C39)	M	1	0	3	2	1	7
		F	0	0	3	0	0	3
		T	1	0	6	2	1	10
11	<b>Malignant neoplasms of bone, mesothelial and soft tissue,skin and breast (C40-C50)</b>	<b>M</b>	13	3	24	19	8	67
		<b>F</b>	136	40	128	112	64	480
		<b>T</b>	149	43	152	131	72	547
1	Malignant neoplasm of bone and articular cartilage (C40-C41)	M	1	1	6	8	3	19
		F	6	0	3	3	1	13
		T	7	1	9	11	4	32

M.G/ CAT./ S.C	CAUSE OF DEATH	SEX	Trivandrum	Kollam	Kochi	Kozhikode	Alappuzha	Total
2	Malignant melanoma of skin ( C43)	M	1	0	2	1	1	5
		F	3	0	1	1	0	5
		T	4	0	3	2	1	10
3	Other malignant neoplasms of skin (C44)	M	0	0	2	0	2	4
		F	0	0	0	0	2	2
		T	0	0	2	0	4	6
4	Malignant neoplasms of mesothelial and soft tissue (C45-C49)	M	11	2	14	9	2	38
		F	7	2	3	12	4	28
		T	18	4	17	21	6	66
5	Malignant neoplasm of breast ( C50)	M	0	0	0	1	0	1
		F	120	38	121	96	57	432
		T	120	38	121	97	57	433
12	<b>Malignant neoplasms of genitourinary organs (C51-C68)</b>	<b>M</b>	33	20	75	87	21	236
		<b>F</b>	80	17	79	92	38	306
		<b>T</b>	113	37	154	179	59	542
1	Malignant neoplasm of cervix uteri ( C53)	F	16	5	12	16	10	59
		T	16	5	12	16	10	59
2	Malignant neoplasm of other and unspecified parts of uterus (C54-C55)	F	13	3	19	16	5	56
		T	13	3	19	16	5	56
3	Malignant neoplasm of ovary ( C56)	F	48	8	38	52	21	167
		T	48	8	38	52	21	167
4	Malignant neoplasm of placenta ( C58)	F	0	0	0	0	0	0
		T	0	0	0	0	0	0
5	Other malignant neoplasms of female genital organs (C51-C52,C57)	F	0	0	1	0	0	1
		T	0	0	1	0	0	1
6	Malignant neoplasm of prostate ( C61)	M	21	7	31	47	9	115
		T	21	7	31	47	9	115
7	Other malignant neoplasms of male genital organs (C60,C62-C63)	M	2	1	2	2	1	8
		T	2	1	2	2	1	8
8	Malignant neoplasm of bladder (C67)	M	7	6	19	26	9	67
		F	2	0	5	4	1	12
		T	9	6	24	30	10	79

M.G/ CAT./ S.C	CAUSE OF DEATH	SEX	Trivandrum	Kollam	Kochi	Kozhikode	Alappuzha	Total
9	Other malignant neoplasms of urinary tract (C64-C66,C68)	M	3	6	23	12	2	46
		F	1	1	4	4	1	11
		T	4	7	27	16	3	57
13	Malignant neoplasms of eye, brain and other parts of central nervous system (C69-C72)	M	16	1	16	17	6	56
		F	9	3	11	12	4	39
		T	25	4	27	29	10	95
1	Malignant neoplasm of eye & adnexa (C69)	M	0	0	1	0	0	1
		F	0	0	0	0	0	0
		T	0	0	1	0	0	1
2	Malignant neoplasm of meninges, brain and other parts of central nervous system (C70-C72)	M	16	1	15	17	6	55
		F	9	3	11	12	4	39
		T	25	4	26	29	10	94
14	Malignant neoplasms of other and unspecified sites (C73-C80 & C97)	M	94	4	22	48	13	181
		F	127	2	21	50	6	206
		T	221	6	43	98	19	387
1	Malignant neoplasm of other, ill-defined, secondary, unspecified and multiple sites (C73-C80 & C97)	M	94	4	22	48	13	181
		F	127	2	21	50	6	206
		T	221	6	43	98	19	387
15	Malignant neoplasms of lymphoid, haematopoietic and related tissue (C81-C96)	M	217	11	103	149	20	500
		F	159	10	66	98	14	347
		T	376	21	169	247	34	847
1	Hodgkin's disease (C81)	M	11	1	4	3	0	19
		F	4	0	2	2	0	8
		T	15	1	6	5	0	27
2	Non-Hodgkin's lymphoma (C82-C85)	M	58	2	36	38	7	141
		F	36	3	20	16	5	80
		T	94	5	56	54	12	221
3	Multiple myeloma and malignant plasma cell neoplasms (C90)	M	31	2	26	23	11	93
		F	26	0	16	28	6	76
		T	57	2	42	51	17	169
4	Leukaemia (C91-C95)	M	114	6	35	78	2	235
		F	91	7	28	51	3	180
		T	205	13	63	129	5	415

M.G/ CAT./ S.C	CAUSE OF DEATH	SEX	Trivandrum	Kollam	Kochi	Kozhikode	Alappuzha	Total
5	Other malignant neoplasms of lymphoid, haematopoietic and related tissue (C88 & C96)	M	3	0	2	7	0	12
		F	2	0	0	1	0	3
		T	5	0	2	8	0	15
16	Carcinoma in situ (D00-D09)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
1	Carcinoma in situ (D00-D09)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
17	Benign neoplasms (D10-D36)	M	3	0	13	3	6	25
		F	6	0	11	13	1	31
		T	9	0	24	16	7	56
1	Leiomyoma of uterus (D25)	F	0	0	0	0	0	0
		T	0	0	0	0	0	0
2	All other benign neoplasms (D10-D24 & D26-D36)	M	3	0	13	3	6	25
		F	6	0	11	13	1	31
		T	9	0	24	16	7	56
18	Other and unspecified neoplasm (D37-D48)	M	3	0	8	7	3	21
		F	4	0	1	6	1	12
		T	7	0	9	13	4	33
1	Other and unspecified neoplasm (D37-D48)	M	3	0	8	7	3	21
		F	4	0	1	6	1	12
		T	7	0	9	13	4	33
III.	DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS AND CERTAIN DISORDERS INVOLVING THE IMMUNE MECHANISM (D50-D89)	M	43	1	42	47	14	147
		F	35	4	49	56	13	157
		T	78	5	91	103	27	304
19	Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50-D89)	M	43	1	42	47	14	147
		F	35	4	49	56	13	157
		T	78	5	91	103	27	304

M.G/ CAT./ S.C	CAUSE OF DEATH	SEX	Trivandrum	Kollam	Kochi	Kozhikode	Alappuzha	Total
1	Thalassaemia ( D56)	M	0	0	0	0	0	0
		F	0	1	0	0	0	1
		T	0	1	0	0	0	1
2	Other anaemias ( D50-D55,D57-D64)	M	17	1	28	30	10	86
		F	16	3	31	40	11	101
		T	33	4	59	70	21	187
3	All other diseases of blood and blood-forming organs ( D65-D76)	M	25	0	14	13	3	55
		F	19	0	13	16	2	50
		T	44	0	27	29	5	105
4	Certain disorders involving the immune mechanism ( D80-D89)	M	1	0	0	4	1	6
		F	0	0	5	0	0	5
		T	1	0	5	4	1	11
IV.	<b>ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES (E00-E89)</b>	<b>M</b>	781	25	417	1252	151	2626
		<b>F</b>	725	23	332	854	151	2085
		<b>T</b>	1506	48	749	2106	302	4711
20	<b>Malnutrition ( E40-E46)</b>	<b>M</b>	3	0	0	1	0	4
		<b>F</b>	1	0	0	4	0	5
		<b>T</b>	4	0	0	5	0	9
1	Kwashiorkor ( E40)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
2	Nutritional marasmus ( E41)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
3	Other protein-energy malnutrition (E42-E46)	M	3	0	0	1	0	4
		F	1	0	0	4	0	5
		T	4	0	0	5	0	9
21	<b>Endocrine, other nutritional and metabolic diseases ( E00-E34 &amp; E50-E89)</b>	<b>M</b>	778	25	417	1251	151	2622
		<b>F</b>	724	23	332	850	151	2080
		<b>T</b>	1502	48	749	2101	302	4702
1	Disorders of thyroid gland ( E00-E07)	M	0	0	0	1	0	1
		F	0	0	0	2	0	2
		T	0	0	0	3	0	3
2	Diabetes mellitus (E10-E14)	M	754	9	300	1226	78	2367
		F	709	8	215	824	81	1837
		T	1463	17	515	2050	159	4204

M.G/ CAT./ S.C	CAUSE OF DEATH	SEX	Trivandrum	Kollam	Kochi	Kozhikode	Alappuzha	Total
3	All other nutritional deficiencies ( E50-E64)	M	1	0	0	2	1	4
		F	1	0	0	1	0	2
		T	2	0	0	3	1	6
4	All other endocrine and metabolic diseases (E15-E34 & E65-E89)	M	23	16	117	22	72	250
		F	14	15	117	23	70	239
		T	37	31	234	45	142	489
V.	<b>MENTAL AND BEHAVIOURAL DISORDERS ( F01-F99)</b>	M	4	0	0	9	0	13
		F	0	0	0	6	0	6
		T	4	0	0	15	0	19
22	<b>Mental and behavioural disorders ( F01-F99)</b>	M	4	0	0	9	0	13
		F	0	0	0	6	0	6
		T	4	0	0	15	0	19
1	Mental and behavioural disorders due to psychoactive substance use ( F10-F19)	M	3	0	0	6	0	9
		F	0	0	0	0	0	0
		T	3	0	0	6	0	9
2	Schizophrenia, schizotypal & delusional disorders ( F20-F29)	M	0	0	0	1	0	1
		F	0	0	0	2	0	2
		T	0	0	0	3	0	3
3	All other mental and behavioural disorders (F01-F09,F30-F99 )	M	1	0	0	2	0	3
		F	0	0	0	4	0	4
		T	1	0	0	6	0	7
VI.	<b>DISEASES OF THE NERVOUS SYSTEM ( G00-G98)</b>	M	87	2	35	145	11	280
		F	60	7	26	137	11	241
		T	147	9	61	282	22	521
23	<b>Inflammatory diseases of the central nervous system ( G00-G09)</b>	M	19	1	10	21	4	55
		F	18	1	2	23	4	48
		T	37	2	12	44	8	103
1	Meningitis ( G00 & G03)	M	7	0	6	6	2	21
		F	7	0	0	7	3	17
		T	14	0	6	13	5	38
2	Encephalitis,myelitis and encephalomyelitis (G04)	M	12	1	4	13	1	31
		F	9	1	1	11	1	23
		T	21	2	5	24	2	54
3	Other inflammatory diseases of the central nervous system ( G06,G08-G09)	M	0	0	0	2	1	3
		F	2	0	1	5	0	8
		T	2	0	1	7	1	11

M.G/ CAT./ S.C	CAUSE OF DEATH	SEX	Trivandrum	Kollam	Kochi	Kozhikode	Alappuzha	Total
24	Other diseases of the nervous system ( G10-G98)	M	68	1	25	124	7	225
		F	42	6	24	114	7	193
		T	110	7	49	238	14	418
1	Alzheimer's disease ( G30)	M	1	0	0	2	0	3
		F	1	1	0	1	0	3
		T	2	1	0	3	0	6
2	Epilepsy (G40-G41)	M	10	0	0	4	1	15
		F	5	0	0	7	0	12
		T	15	0	0	11	1	27
3	All other diseases of the nervous system (G10-G25,G31,G35-G37,G43-G98)	M	57	1	25	118	6	207
		F	36	5	24	106	7	178
		T	93	6	49	224	13	385
VII.	DISEASES OF THE EYE AND ADNEXA (H00-H59)	M	2	0	0	0	0	2
		F	0	0	0	0	0	0
		T	2	0	0	0	0	2
25	Disease of the eye and adnexa ( H00-H59)	M	2	0	0	0	0	2
		F	0	0	0	0	0	0
		T	2	0	0	0	0	2
1	Disease of the eye and adnexa ( H00-H59)	M	2	0	0	0	0	2
		F	0	0	0	0	0	0
		T	2	0	0	0	0	2
VIII.	DISEASES OF THE EAR AND MASTOID PROCESS (H60-H95)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
26	Diseases of the ear and mastoid process ( H60-H93)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
1	Diseases of the ear and mastoid process ( H60-H93)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
IX.	DISEASES OF THE CIRCULATORY SYSTEM ( I00-I99)	M	1245	404	1346	2012	785	5792
		F	865	282	866	1436	645	4094
		T	2110	686	2212	3448	1430	9886
27	Acute rheumatic fever and chronic rheumatic heart diseases ( I00-I09)	M	17	6	0	21	1	45
		F	24	14	2	43	0	83
		T	41	20	2	64	1	128

M.G/ CAT./ S.C	CAUSE OF DEATH	SEX	Trivandrum	Kollam	Kochi	Kozhikode	Alappuzha	Total
1	Acute rheumatic fever (I00-I02)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
2	Chronic rheumatic heart diseases ( I05-I09)	M	17	6	0	21	1	45
		F	24	14	2	43	0	83
		T	41	20	2	64	1	128
28	<b>Hypertensive diseases (I10-I15)</b>	<b>M</b>	138	12	32	416	8	606
		<b>F</b>	161	12	23	325	4	525
		<b>T</b>	299	24	55	741	12	1131
1	Hypertensive heart disease ( I11)	M	120	3	0	343	0	466
		F	145	3	0	280	0	428
		T	265	6	0	623	0	894
2	All other hypertensive diseases (I10, I12-I15)	M	18	9	32	73	8	140
		F	16	9	23	45	4	97
		T	34	18	55	118	12	237
29	<b>Ischaemic heart diseases ( I20-I25)</b>	<b>M</b>	474	225	772	677	418	2566
		<b>F</b>	221	140	454	386	318	1519
		<b>T</b>	695	365	1226	1063	736	4085
1	Acute myocardial infarction ( I21-I22)	M	90	159	123	47	46	465
		F	51	101	80	26	36	294
		T	141	260	203	73	82	759
2	All other ischaemic heart diseases ( I20 & I23-I25)	M	384	66	649	630	372	2101
		F	170	39	374	360	282	1225
		T	554	105	1023	990	654	3326
30	<b>Diseases of pulmonary circulation and other forms of heart disease ( I26-I51)</b>	<b>M</b>	116	59	180	98	106	559
		<b>F</b>	97	42	154	100	98	491
		<b>T</b>	213	101	334	198	204	1050
1	Pulmonary heart disease and diseases of pulmonary circulation ( I26-I28)	M	6	7	6	6	2	27
		F	11	0	6	20	5	42
		T	17	7	12	26	7	69
2	Other forms of heart diseases ( I30-I51)	M	110	52	174	92	104	532
		F	86	42	148	80	93	449
		T	196	94	322	172	197	981
31	<b>Cerebrovascular diseases ( I60-I69)</b>	<b>M</b>	459	95	336	753	247	1890
		<b>F</b>	336	72	225	554	220	1407
		<b>T</b>	795	167	561	1307	467	3297

M.G/ CAT./ S.C	CAUSE OF DEATH	SEX	Trivandrum	Kollam	Kochi	Kozhikode	Alappuzha	Total
1	Cerebrovascular diseases ( I60-I69)	M	459	95	336	753	247	1890
		F	336	72	225	554	220	1407
		T	795	167	561	1307	467	3297
32	Other diseases of the circulatory system ( I70-I99)	M	41	7	26	47	5	126
		F	26	2	8	28	5	69
		T	67	9	34	75	10	195
1	Atherosclerosis ( I70)	M	0	0	0	0	0	0
		F	0	0	0	1	0	1
		T	0	0	0	1	0	1
2	Arterial embolism and thrombosis ( I74)	M	1	0	1	0	0	2
		F	0	0	0	0	0	0
		T	1	0	1	0	0	2
3	Other diseases of arteries, arterioles & capillaries (I71-I73 & I77-I78)	M	33	6	23	41	4	107
		F	20	2	3	25	4	54
		T	53	8	26	66	8	161
4	Phlebitis, thrombophlebitis, venous embolism and thrombosis ( I80-I82)	M	4	1	1	4	1	11
		F	6	0	3	1	1	11
		T	10	1	4	5	2	22
5	All other diseases of the circulatory system ( I83-I99)	M	3	0	1	2	0	6
		F	0	0	2	1	0	3
		T	3	0	3	3	0	9
X.	DISEASES OF THE RESPIRATORY SYSTEM (J00-J98)	M	476	191	338	714	345	2064
		F	271	106	186	365	141	1069
		T	747	297	524	1079	486	3133
33	Diseases of the upper respiratory tract (J00-J06 & J30-J39)	M	0	0	1	1	0	2
		F	0	0	0	0	0	0
		T	0	0	1	1	0	2
1	Acute pharyngitis and acute tonsillitis ( J02-J03)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
2	Acute laryngitis and tracheitis( J04)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
3	Other acute upper respiratory infections (J00-J01 & J05-J06)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0

M.G/ CAT./ S.C	CAUSE OF DEATH	SEX	Trivandrum	Kollam	Kochi	Kozhikode	Alappuzha	Total
4	All other diseases of upper respiratory tract ( J30-J39)	M	0	0	1	1	0	2
		F	0	0	0	0	0	0
		T	0	0	1	1	0	2
<b>34</b>	<b>Lower respiratory diseases ( J20-J22 &amp; J40-J47)</b>	<b>M</b>	392	157	228	595	281	1653
		<b>F</b>	177	84	108	247	88	704
		<b>T</b>	569	241	336	842	369	2357
1	Acute bronchitis and acute bronchiolitis ( J20-J21)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
2	Bronchitis, chronic and unspecified, emphysema ( J40-J43)	M	0	0	0	1	0	1
		F	0	0	0	3	0	3
		T	0	0	0	4	0	4
3	Asthma (J45-J46)	M	10	2	1	9	1	23
		F	21	5	3	31	1	61
		T	31	7	4	40	2	84
4	Other lower respiratory disorders (J22, J44 & J47)	M	382	155	227	585	280	1629
		F	156	79	105	213	87	640
		T	538	234	332	798	367	2269
<b>35</b>	<b>Other diseases of the respiratory system (J10-J18,J60-J98)</b>	<b>M</b>	84	34	109	118	64	409
		<b>F</b>	94	22	78	118	53	365
		<b>T</b>	178	56	187	236	117	774
1	Influenza (J10-J11)	M	4	0	0	4	0	8
		F	7	0	1	5	0	13
		T	11	0	1	9	0	21
2	Pneumonia ( J12-J18)	M	42	6	71	41	26	186
		F	34	3	52	42	21	152
		T	76	9	123	83	47	338
3	Pleurisy ( J90)	M	4	0	2	4	0	10
		F	6	0	1	9	0	16
		T	10	0	3	13	0	26
4	All other diseases of the respiratory system (J60-J86,J92-J98.)	M	34	28	36	69	38	205
		F	47	19	24	62	32	184
		T	81	47	60	131	70	389
<b>XI.</b>	<b>DISEASES OF THE DIGESTIVE SYSTEM (K00-K92)</b>	<b>M</b>	356	73	445	542	200	1616
		<b>F</b>	94	19	161	178	49	501
		<b>T</b>	450	92	606	720	249	2117

M.G/ CAT./ S.C	CAUSE OF DEATH	SEX	Trivandrum	Kollam	Kochi	Kozhikode	Alappuzha	Total
36	Diseases of oral cavity, salivary glands and jaws (K00-K14)	M	0	0	0	3	0	3
		F	0	0	0	0	0	0
		T	0	0	0	3	0	3
1	Diseases of oral cavity, salivary glands and jaws ( K00-K14)	M	0	0	0	3	0	3
		F	0	0	0	0	0	0
		T	0	0	0	3	0	3
37	Diseases of the other parts of digestive system ( K20-K92)	M	356	73	445	539	200	1613
		F	94	19	161	178	49	501
		T	450	92	606	717	249	2114
1	Gastric and duodenal ulcer ( K25-K27)	M	1	0	0	4	0	5
		F	0	0	0	0	0	0
		T	1	0	0	4	0	5
2	Gastritis and duodenitis ( K29)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
3	Diseases of appendix ( K35-K38)	M	0	0	0	5	0	5
		F	0	0	0	0	0	0
		T	0	0	0	5	0	5
4	Hernia ( K40-K46)	M	5	0	0	3	0	8
		F	1	0	0	4	0	5
		T	6	0	0	7	0	13
5	Paralytic ileus and intestinal obstruction without hernia ( K56)	M	9	1	1	12	0	23
		F	5	1	0	7	1	14
		T	14	2	1	19	1	37
6	Peritonitis ( K65)	M	5	0	2	7	3	17
		F	1	1	6	3	0	11
		T	6	1	8	10	3	28
7	Diseases of the liver ( K70-K76)	M	296	65	367	442	139	1309
		F	61	14	116	127	26	344
		T	357	79	483	569	165	1653
8	Cholelithiasis and cholecystitis ( K80-K81)	M	2	0	0	2	0	4
		F	1	0	0	4	0	5
		T	3	0	0	6	0	9
9	Disorders of the pancreas (K85-K86)	M	11	0	7	27	0	45
		F	5	0	3	5	0	13
		T	16	0	10	32	0	58

M.G/ CAT./ S.C	CAUSE OF DEATH	SEX	Trivandrum	Kollam	Kochi	Kozhikode	Alappuzha	Total
10	All other diseases of the other parts of digestive system (K20-K22,K28,K30-K31,K50-K55,K57-K63,K66,K82-K83 & K90-K92)	M	27	7	68	37	58	197
		F	20	3	36	28	22	109
		T	47	10	104	65	80	306
XII.	<b>DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE (L00-L98)</b>	M	18	1	0	17	0	36
		F	12	1	0	12	0	25
		T	30	2	0	29	0	61
38	<b>Diseases of the skin and subcutaneous tissue ( L00-L98)</b>	M	18	1	0	17	0	36
		F	12	1	0	12	0	25
		T	30	2	0	29	0	61
1	Infections of the skin and subcutaneous tissue ( L00-L08)	M	12	1	0	14	0	27
		F	7	0	0	8	0	15
		T	19	1	0	22	0	42
2	All other diseases of the skin and subcutaneous tissue ( L10-L98)	M	6	0	0	3	0	9
		F	5	1	0	4	0	10
		T	11	1	0	7	0	19
XIII.	<b>DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE ( M00-M99)</b>	M	28	2	4	17	1	52
		F	41	2	8	42	3	96
		T	69	4	12	59	4	148
39	<b>Diseases of the musculoskeletal system and connective tissue ( M00-M99)</b>	M	28	2	4	17	1	52
		F	41	2	8	42	3	96
		T	69	4	12	59	4	148
1	Rheumatoid arthritis and other inflammatory polyarthropathies ( M05-M13)	M	1	0	0	1	0	2
		F	4	0	0	15	0	19
		T	5	0	0	16	0	21
2	Osteomyelitis ( M86)	M	2	0	0	0	0	2
		F	0	0	0	0	0	0
		T	2	0	0	0	0	2
3	All other diseases of the musculoskeletal system and connective tissue (M00-M02, M15-M85,M87-M99)	M	25	2	4	16	1	48
		F	37	2	8	27	3	77
		T	62	4	12	43	4	125

M.G/ CAT./ S.C	CAUSE OF DEATH	SEX	Trivandrum	Kollam	Kochi	Kozhikode	Alappuzha	Total
XIV.	<b>DISEASES OF THE GENITOURINARY SYSTEM ( N00-N99)</b>	<b>M</b>	176	97	8	312	3	596
		<b>F</b>	104	57	4	187	0	352
		<b>T</b>	280	154	12	499	3	948
40	<b>Diseases of urinary system ( N00-N39)</b>	<b>M</b>	168	97	7	307	3	582
		<b>F</b>	101	57	4	184	0	346
		<b>T</b>	269	154	11	491	3	928
1	Glomerular diseases (including Nephritic Synodrome) (N00-N07)	M	91	0	3	264	0	358
		F	53	0	1	128	0	182
		T	144	0	4	392	0	540
2	Renal tubulo-interstitial diseases ( N10-N15)	M	1	0	0	5	0	6
		F	0	0	0	3	0	3
		T	1	0	0	8	0	9
3	Renal failure ( N17-N19)	M	57	75	4	6	3	145
		F	22	49	3	2	0	76
		T	79	124	7	8	3	221
4	Urolithiasis ( N20-N23)	M	1	0	0	0	0	1
		F	1	0	0	0	0	1
		T	2	0	0	0	0	2
5	Other disorders of kidney and ureter (N25-N28)	M	1	13	0	1	0	15
		F	0	5	0	1	0	6
		T	1	18	0	2	0	21
6	All other diseases of urinary system ( N30-N39)	M	17	9	0	31	0	57
		F	25	3	0	50	0	78
		T	42	12	0	81	0	135
41	<b>Other diseases of the genitourinary system ( N40-N99)</b>	<b>M</b>	8	0	1	5	0	14
		<b>F</b>	3	0	0	3	0	6
		<b>T</b>	11	0	1	8	0	20
1	Hyperplasia of prostate ( N40)	M	1	0	1	2	0	4
		T	1	0	1	2	0	4
2	All other diseases of male genital organs (N41-N50)	M	7	0	0	3	0	10
		T	7	0	0	3	0	10
3	Salpingitis and oophoritis ( N70)	F	0	0	0	1	0	1
		T	0	0	0	1	0	1
4	All other diseases of female genital organs ( N60-N64 & N71-N99)	F	3	0	0	2	0	5
		T	3	0	0	2	0	5

M.G/ CAT./ S.C	CAUSE OF DEATH	SEX	Trivandrum	Kollam	Kochi	Kozhikode	Alappuzha	Total
XV.	<b>PREGNANCY, CHILDBIRTH AND THE PUERPERIUM ( O00-O99)</b>	F	4	1	0	9	0	14
		T	4	1	0	9	0	14
42	<b>Pregnancy with abortive outcome (O00-O08)</b>	F	0	0	0	2	0	2
		T	0	0	0	2	0	2
1	Spontaneous abortion ( O03)	F	0	0	0	0	0	0
		T	0	0	0	0	0	0
2	Medical abortion ( O04)	F	0	0	0	0	0	0
		T	0	0	0	0	0	0
3	Other pregnancies with abortive outcome ( O00-O02 & O05-O08)	F	0	0	0	2	0	2
		T	0	0	0	2	0	2
43	<b>Other direct obstetric deaths ( O10-O92)</b>	F	4	1	0	3	0	8
		T	4	1	0	3	0	8
1	Oedema, proteinuria and hypertensive disorders in pregnancy, childbirth and the puerperium ( O10-O16)	F	0	1	0	1	0	2
		T	0	1	0	1	0	2
2	Infections of genitourinary tract in pregnancy ( O23)	F	0	0	0	0	0	0
		T	0	0	0	0	0	0
3	Obstructed labour ( O64-O66)	F	0	0	0	0	0	0
		T	0	0	0	0	0	0
4	Complications pre- dominantly related to the puerperium ( O85-O92)	F	2	0	0	1	0	3
		T	2	0	0	1	0	3
5	Other complications of pregnancy and delivery (O20-O22,O24-O63 & O67-O84)	F	2	0	0	1	0	3
		T	2	0	0	1	0	3
44	<b>Other obstetric conditions, not elsewhere classified ( O95-O99)</b>	F	0	0	0	4	0	4
		T	0	0	0	4	0	4
1	Indirect obstetric deaths (O98-O99)	F	0	0	0	4	0	4
		T	0	0	0	4	0	4
2	All other obstetric conditions, not elsewhere classified ( O95-O97)	F	0	0	0	0	0	0
		T	0	0	0	0	0	0

M.G/ CAT./ S.C	CAUSE OF DEATH	SEX	Trivandrum	Kollam	Kochi	Kozhikode	Alappuzha	Total
XVI.	<b>CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD ( P00-P96)</b>	M	131	7	53	157	17	365
		F	106	7	34	150	14	311
		T	237	14	87	307	31	676
45	<b>Certain conditions originating in the perinatal period ( P00-P96)</b>	M	131	7	53	157	17	365
		F	106	7	34	150	14	311
		T	237	14	87	307	31	676
1	Slow fetal growth, fetal malnutrition and immaturity ( P05-P07)	M	51	5	29	54	6	145
		F	52	4	18	67	10	151
		T	103	9	47	121	16	296
2	Birth trauma ( P10-P15)	M	0	0	0	0	0	0
		F	0	1	0	0	0	1
		T	0	1	0	0	0	1
3	Hypoxia, birth asphyxia and other respiratory conditions ( P20-P28)	M	36	1	13	43	4	97
		F	23	1	8	43	3	78
		T	59	2	21	86	7	175
4	Haemolytic disease of fetus and new-born ( P55)	M	0	0	0	0	0	0
		F	2	0	0	0	0	2
		T	2	0	0	0	0	2
5	Other perinatal jaundice ( P58-P59)	M	0	0	1	2	0	3
		F	3	0	0	2	0	5
		T	3	0	1	4	0	8
6	All other conditions originating in the perinatal period ( P00-P04,P08,P29- P54,P56-P57,P60-P96.)	M	44	1	10	58	7	120
		F	26	1	8	38	1	74
		T	70	2	18	96	8	194
XVII.	<b>CONGENITAL MALFORMATIONS, DEFORMATIONS AND CHROMOSOMAL ABNORMALITIES ( Q00-Q99)</b>	M	78	0	59	158	6	301
		F	69	0	39	126	7	241
		T	147	0	98	284	13	542
46	<b>Congenital malformations, deformations and chromosomal abnormalities ( Q00-Q99)</b>	M	78	0	59	158	6	301
		F	69	0	39	126	7	241
		T	147	0	98	284	13	542
1	Spina bifida ( Q05)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0

M.G/ CAT./ S.C	CAUSE OF DEATH	SEX	Trivandrum	Kollam	Kochi	Kozhikode	Alappuzha	Total
2	Congenital malformations of the circulatory system ( Q20-Q28)	M	37	0	42	69	5	153
		F	33	0	24	63	6	126
		T	70	0	66	132	11	279
3	Cleft lip and cleft palate ( Q35-Q37)	M	1	0	0	0	0	1
		F	0	0	0	1	0	1
		T	1	0	0	1	0	2
4	All other congenital malformations, deformations and chromosomal abnormalities, not elsewhere classified (Q00-Q04,Q06-Q18,Q30-Q34 & Q38-Q99)	M	40	0	17	89	1	147
		F	36	0	15	62	1	114
		T	76	0	32	151	2	261
XVIII.	<b>SYMPTOMS, SIGNS AND ABNORMAL CLINICAL AND LABORATORY FINDINGS,NOT ELSEWHERE CLASSIFIED ( R00-R99)</b>	<b>M</b>	498	20	90	114	201	923
		<b>F</b>	178	25	40	35	74	352
		<b>T</b>	676	45	130	149	275	1275
47	<b>Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)</b>	<b>M</b>	498	20	90	114	201	923
		<b>F</b>	178	25	40	35	74	352
		<b>T</b>	676	45	130	149	275	1275
1	Abdominal and pelvic pain ( R10)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
2	Ascites ( R18)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
3	Somnolence, stupor and coma ( R40)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
4	Fever of unknown origin ( R50)	M	0	0	0	2	0	2
		F	1	2	0	1	0	4
		T	1	2	0	3	0	6
5	Senility ( R54)	M	0	14	0	5	0	19
		F	0	19	0	0	0	19
		T	0	33	0	5	0	38

M.G/ CAT./ S.C	CAUSE OF DEATH	SEX	Trivandrum	Kollam	Kochi	Kozhikode	Alappuzha	Total
6	Syncope and collapse (R55)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
7	Convulsions, not elsewhere classified ( R56)	M	2	0	0	1	0	3
		F	1	0	0	0	0	1
		T	3	0	0	1	0	4
8	Shock, not elsewhere classified ( R57)	M	3	4	3	0	0	10
		F	0	2	0	0	0	2
		T	3	6	3	0	0	12
9	All other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R09,R11-R17,R19- R39,R41-R49,R51- R53,R58-R99)	M	493	2	87	106	201	889
		F	176	2	40	34	74	326
		T	669	4	127	140	275	1215
XIX.	<b>INJURY, POISONING AND CERTAIN OTHER CONSEQUENCES OF EXTERNAL CAUSES ( S00-T98)</b>	<b>M</b>	131	26	103	536	15	811
		<b>F</b>	48	9	38	193	14	302
		<b>T</b>	179	35	141	729	29	1113
48	<b>Fractures ( S02,S12,S22,S32, S42,S52, S62,S72 ,S82,S92,T02,T08,T10 &amp; T12 )</b>	<b>M</b>	31	25	0	34	0	90
		<b>F</b>	9	6	0	7	0	22
		<b>T</b>	40	31	0	41	0	112
1	Fracture of skull and facial bones ( S02)	M	29	25	0	1	0	55
		F	7	6	0	0	0	13
		T	36	31	0	1	0	68
2	Fracture of neck, thorax or pelvis ( S12,S22,S32 & T08)	M	0	0	0	7	0	7
		F	0	0	0	2	0	2
		T	0	0	0	9	0	9
3	Fracture of upper limb ( S42,S52,S62 & T10)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
4	Fractures of lower limb ( S72,S82,S92 & T12)	M	0	0	0	2	0	2
		F	0	0	0	0	0	0
		T	0	0	0	2	0	2
5	Fractures involving multiple body regions , and of unspecified body region ( T02 )	M	2	0	0	24	0	26
		F	2	0	0	5	0	7
		T	4	0	0	29	0	33

M.G/ CAT./ S.C	CAUSE OF DEATH	SEX	Trivandrum	Kollam	Kochi	Kozhikode	Alappuzha	Total
49	Dislocations, sprains and strains of specified and multiple body regions (S03,S13,S23,S33,S43, S53,S63,S73,S83,S93, T03 )	M	0	0	0	1	0	1
		F	0	0	0	0	0	0
		T	0	0	0	1	0	1
50	Intracranial and internal injuries, including nerves (S04,S06,S14,S24,S26-S27,S34,S36-S37,S44,S54, S64,S74,S84 & S94)	M	10	0	6	76	0	92
		F	3	0	0	23	0	26
		T	13	0	6	99	0	118
51	Crushing injuries and traumatic amputations of specified and multiple body regions (S07-S08,S17-S18,S28,S38,S47-S48,S57-S58,S67-S68,S77-S78,S87-S88,S97-S98,T04-T05)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
52	Other injuries of specified, unspecified and multiple body regions (S00-S01,S05,S09-S11,S15-S16,S19-S21,S25,S29-S31,S35,S39-S41,S45-S46,S49-S51,S55-S56,S59-S61,S65-S66,S69-S71,S75-S76,S79-S81,S85-S86,S89-S91,S95-S96,S99,T00-T01,T06-T07,T09,T11,T13-T14)	M	33	0	72	299	10	414
		F	5	0	19	55	8	87
		T	38	0	91	354	18	501
53	Effects of foreign body entering through natural orifice ( T15-T19)	M	0	0	1	1	0	2
		F	0	0	0	1	0	1
		T	0	0	1	2	0	3

M.G/ CAT./ S.C	CAUSE OF DEATH	SEX	Trivandrum	Kollam	Kochi	Kozhikode	Alappuzha	Total
54	Burns and Corrosions ( T20-T32)	M	2	0	14	30	1	47
		F	2	2	17	69	4	94
		T	4	2	31	99	5	141
55	Poisonings by drugs & biological substances; and Toxic effects of substances chiefly nonmedicinal as to source ( T36-T50 & T51-T65)	M	20	1	6	51	4	82
		F	6	0	1	17	2	26
		T	26	1	7	68	6	108
56	Other and unspecified effects of external causes and certain early complications of trauma (T33-T35,T66-T79)	M	6	0	4	22	0	32
		F	5	1	1	10	0	17
		T	11	1	5	32	0	49
57	Complications of Surgical and Medical care, not elsewhere classified ( T80-T88)	M	13	0	0	16	0	29
		F	17	0	0	7	0	24
		T	30	0	0	23	0	53
58	Late effects of injuries, of poisoning and of other consequences of external causes (T90-T98)	M	16	0	0	6	0	22
		F	1	0	0	4	0	5
		T	17	0	0	10	0	27
XX.	EXTERNAL CAUSES OF MORBIDITY AND MORTALITY ( V01-Y89)	M	129	27	114	535	17	822
		F	50	10	47	194	13	314
		T	179	37	161	729	30	1136
E48	Transport accidents (V01-V99)	M	75	25	78	369	9	556
		F	15	6	26	79	3	129
		T	90	31	104	448	12	685
1	Railway accidents (V05,V15,V80.6,V81, V82.2, V87.6 & V88.6)	M	0	0	1	0	0	1
		F	0	0	0	0	0	0
		T	0	0	1	0	0	1
2	Motor vehicle traffic accidents (V02- V04,V09.2-V09.3,V12- V14,V19.4-V19.6 ,V19.9,V20-V28,V29.4- V29.6,V29.9, V30- V38,V39.4-V39.6, V39.9,V40-V48,V49.4- V49.6,V49.9, V50- V58,V59.4-V59.6, V59.9,V60-V68,V69.4- V69.6,V69.9, V70- V78,V79.4-V79.6, V79.9,V80.3-V80.5,V82.	M	74	25	76	369	9	553
		F	15	6	26	79	3	129
		T	89	31	102	448	12	682

M.G/ CAT./ S.C	CAUSE OF DEATH	SEX	Trivandrum	Kollam	Kochi	Kozhikode	Alappuzha	Total
3	Other road vehicle accidents (V01,V06,V09.9,V10-V11,V16-V18,V19.8,V29.8,V39.8,V49.8,V59.8,V69.8,V79.8, V80.0-V80.2,V80.7-V80.9, V82.3-V82.7, V82.9 & V89.1)	M	1	0	1	0	0	2
		F	0	0	0	0	0	0
		T	1	0	1	0	0	2
4	Water transport accidents ( V90-V94)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
5	Air & Space transport accidents ( V95-V97)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
6	All other transport accidents (V09.0-V09.1,V19.0-V19.3, V29.0-V29.3, V39.0-V39.3, V49.0-V49.3, V59.0-V59.3,V69.0-V69.3, V79.0-V79.3, V82.0, V82.8, V83-V86,V88.0-V88.5,V88.7-V88.9,V89.0,V89.9,V98-V99)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
E49	Accidental Falls (W00-W19)	M	8	0	10	45	3	66
		F	5	0	1	12	4	22
		T	13	0	11	57	7	88
E50	Accidental drowning and submersion (W65-W74)	M	1	1	0	5	0	7
		F	0	1	0	0	0	1
		T	1	2	0	5	0	8
E51	Exposure to smoke, fire and flames (X00-X09)	M	2	0	16	30	1	49
		F	2	2	19	65	4	92
		T	4	2	35	95	5	141
E52	Accidental poisoning by and exposure to noxious substances (X40-X49)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
E53	Intentional self-harm (Suicide- attempted) ( X60-X84)	M	13	1	8	47	3	72
		F	7	0	1	22	2	32
		T	20	1	9	69	5	104

M.G/ CAT./ S.C	CAUSE OF DEATH	SEX	Trivandrum	Kollam	Kochi	Kozhikode	Alappuzha	Total
E54	Assault (Homicide) ( X85-Y09)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
E55	Other Violence (Y10-Y36)	M	10	0	0	7	0	17
		F	0	0	0	1	0	1
		T	10	0	0	8	0	18
1	Event of undetermined intent (Y10-Y34)	M	10	0	0	7	0	17
		F	0	0	0	1	0	1
		T	10	0	0	8	0	18
2	Legal intervention ( Y35)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
3	Operations of war (Y36)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
E56	Complications of medical and surgical care ( Y40-Y84)	M	13	0	0	15	0	28
		F	17	0	0	7	0	24
		T	30	0	0	22	0	52
1	Drugs,medicaments and biological substances causing adverse effects in therapeutic use (Y40-Y59)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
2	Misadventures during surgical & medical care,adverse incidents in diagnostic and therapeutic use, abnormal reactions and late complications (Y60-Y69,Y70-Y82 & Y83-Y84)	M	13	0	0	15	0	28
		F	17	0	0	7	0	24
		T	30	0	0	22	0	52
E57	Other external causes of accidental injury, not elsewhere classified (W20- W64,W75-W99, X10-X39,X50-X59)	M	7	0	2	17	1	27
		F	4	1	0	8	0	13
		T	11	1	2	25	1	40
1	Accidents caused by machinery, and by cutting & piercing instruments ( W24-W31 )	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0

M.G/ CAT./ S.C	CAUSE OF DEATH	SEX	Trivandrum	Kollam	Kochi	Kozhikode	Alappuzha	Total
2	Accidents caused by firearm missile (W32-W34)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
3	Bites of snakes & other venomous animals ( X20-X27)	M	6	0	1	5	1	13
		F	1	1	0	2	0	4
		T	7	1	1	7	1	17
4	Sun stroke ( X32)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
5	All other accidents including late effects (W20-W23,W35-W64, W75-W99,X10-X19, X28-X31, X33-X39 & X50-X59 )	M	1	0	1	12	0	14
		F	3	0	0	6	0	9
		T	4	0	1	18	0	23
E58	Late effects of external causes of morbidity and mortality ( Y85- Y89)	M	0	0	0	0	0	0
		F	0	0	0	0	0	0
		T	0	0	0	0	0	0
<b>ALL CAUSES ( MAJOR GROUP I to XIX)</b>		M	5053	1052	3899	7335	2099	19438
		F	3389	676	2343	4575	1324	12307
		T	8442	1728	6242	11910	3423	31745
<b>ALL CAUSES ( MAJOR GROUP I to XX)</b>		M	5182	1079	4013	7870	2116	20260
		F	3439	686	2390	4769	1337	12621
		T	8621	1765	6403	12639	3453	32881

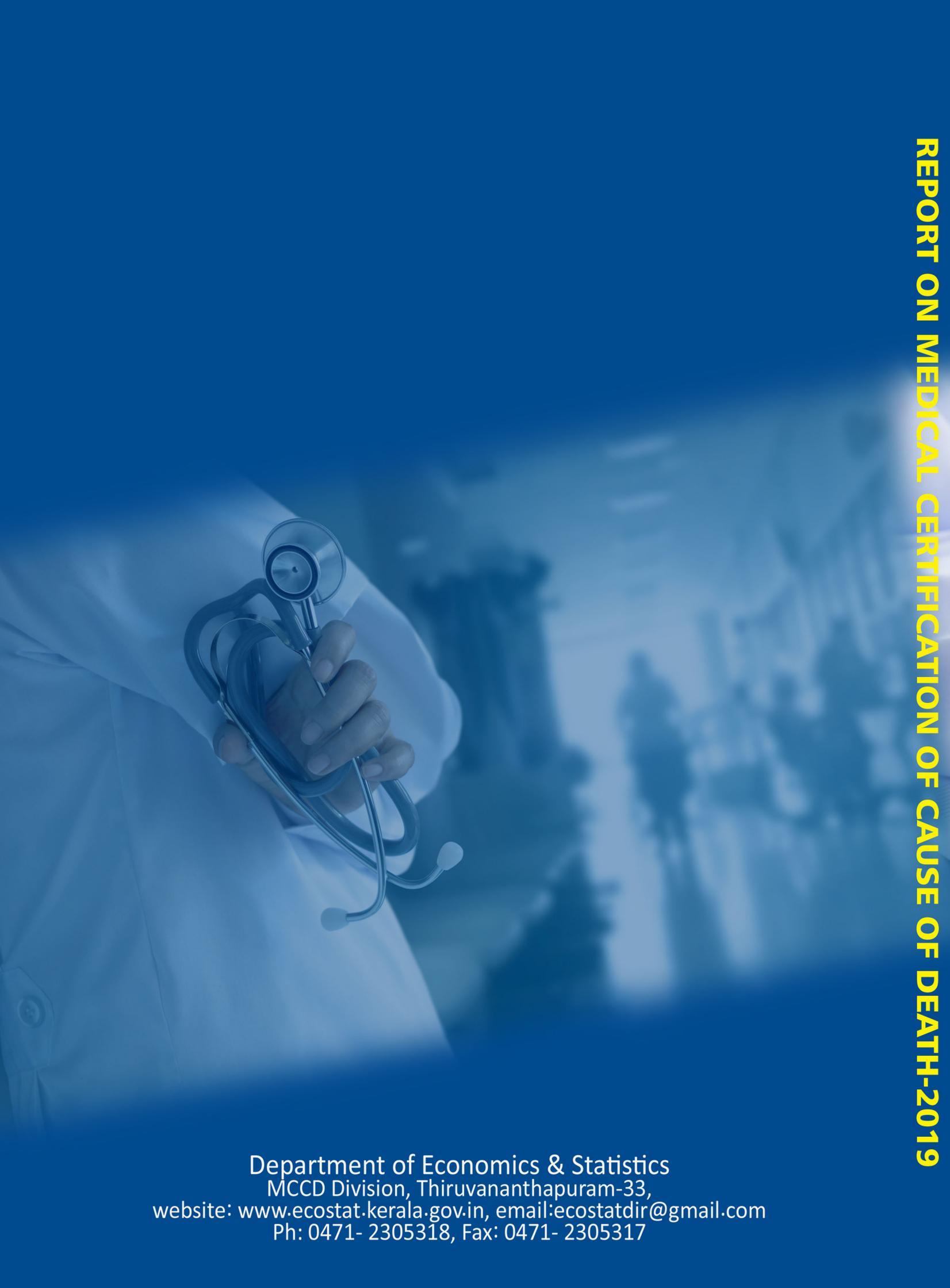
Appendix-VIII															
TABLE - CAUSE OF DEATH UNDER MAJOR CAUSE GROUP FOR ALL CENTERS															
DURING THE YEAR 2019															
M.G/ CAT. /S.C	CAUSE OF DEATH	SEX	AGE GROUPS											N.S .	TOT AL
			<1	1- 4	5- 14	15- 24	25- 34	35- 44	45- 54	55- 64	65- 69	70+			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
I.	Certain infectious and parasitic diseases (A00-b99)	Male	4	3	10	19	32	64	126	163	106	201	1	729	
		Female	3	7	11	17	21	41	58	67	53	137	0	415	
		T	7	10	21	36	53	105	184	230	159	338	1	1144	
II.	Neoplasms (C00-d48)	Male	0	17	37	53	59	141	422	915	564	873	4	3085	
		Female	1	18	23	32	80	190	463	514	290	430	5	2046	
		T	1	35	60	85	139	331	885	1429	854	1303	9	5131	
III.	Diseases of the blood and blood- forming Organs and certain disorders involving.The immune mechanism ( d50-d89)	Male	0	12	10	4	8	14	19	28	24	27	1	147	
		Female	3	8	5	10	5	10	20	30	16	50	0	157	
		T	3	20	15	14	13	24	39	58	40	77	1	304	
IV.	Endocrine, nutritional and metabolic Diseases (e00-e89)	Male	4	7	6	6	22	91	358	698	412	1021	1	2626	
		Female	4	5	6	7	17	64	254	479	341	908	0	2085	
		T	8	12	12	13	39	155	612	1177	753	1929	1	4711	
V.	Mental and behavioural disorders ( F01-f99)	Male	0	0	0	0	1	4	4	1	1	2	0	13	
		Female	0	0	0	0	0	1	0	2	0	3	0	6	
		T	0	0	0	0	1	5	4	3	1	5	0	19	
VI.	Diseases of the nervous system ( G00-g98)	Male	6	14	16	26	18	22	28	40	35	74	1	280	
		Female	6	16	19	9	9	14	20	31	23	94	0	241	
		T	12	30	35	35	27	36	48	71	58	168	1	521	
VII.	Diseases of the eye and adnexa (H00-h59)	Male	0	0	1	0	0	0	0	1	0	0	0	2	
		Female	0	0	0	0	0	0	0	0	0	0	0	0	
		T	0	0	1	0	0	0	0	0	0	0	0	2	

M.G/ CAT. /S.C	CAUSE OF DEATH	SEX	AGE GROUPS																				
			0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-89	90-94	95-99	
VIII.	Diseases of the ear and mastoid process (H60-h95)	Male	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Female	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IX.	Diseases of the circulatory system (I00-i99)	Male	0	1	5	42	82	226	706	1365	963	2398	4	5792									
		Female	0	1	8	10	34	94	326	692	625	2304	0	4094									
		T	0	2	13	52	116	320	1032	2057	1588	4702	4	9886									
X.	Diseases of the respiratory system (J00-j98)	Male	6	17	10	15	24	37	149	446	375	979	6	2064									
		Female	4	11	17	8	19	37	90	183	143	556	1	1069									
		T	10	28	27	23	43	74	239	629	518	1535	7	3133									
XI.	Diseases of the digestive system (K00-k92)	Male	0	0	3	8	45	191	371	479	238	279	2	1616									
		Female	2	0	9	11	6	26	66	114	75	192	0	501									
		T	2	0	12	19	51	217	437	593	313	471	2	2117									
XII.	Diseases of the skin and subcutaneous Tissue (l00-l98)	Male	0	0	2	3	0	3	4	13	4	7	0	36									
		Female	0	0	1	0	0	3	3	3	1	14	0	25									
		T	0	0	3	3	0	6	7	16	5	21	0	61									
XIII.	Diseases of the musculoskeletal system And connective tissue (m00-m99)	Male	0	0	1	1	4	6	8	13	1	18	0	52									
		Female	0	0	3	9	14	7	13	6	9	35	0	96									
		T	0	0	4	10	18	13	21	19	10	53	0	148									
XIV.	Diseases of the genitourinary system (N00-n99)	Male	0	1	4	9	21	35	89	147	85	202	3	596									
		Female	0	1	3	7	12	17	42	72	60	138	0	352									
		T	0	2	7	16	33	52	131	219	145	340	3	948									
XV.	Pregnancy, childbirth and the Puerperium (o00-o99)	Female	0	0	0	3	9	2	0	0	0	0	0	14									
		T	0	0	0	3	9	2	0	0	0	0	0	14									
XVI.	Certain conditions originating in the Perinatal period (p00-p96)	Male	365	0	0	0	0	0	0	0	0	0	0	365									
		Female	311	0	0	0	0	0	0	0	0	0	0	311									
		T	676	0	0	0	0	0	0	0	0	0	0	676									

M.G/ CAT. /S.C	CAUSE OF DEATH	SEX	AGE GROUPS											
XVII.	Congenital malformations, deformations And chromosomal abnormalities ( q00-q99)	Male	206	33	29	6	12	5	8	2	0	0	0	301
		Female	166	36	20	6	5	5	3	0	0	0	0	241
		T	372	69	49	12	17	10	11	2	0	0	0	542
XVIII	Symptoms, signs and abnormal clinical And laboratory findings,not elsewhere Classified ( r00-r99)	Male	11	4	10	72	95	113	167	173	88	174	16	923
		Female	4	3	6	21	39	41	49	56	37	94	2	352
		T	15	7	16	93	134	154	216	229	125	268	18	1275
XIX.	Injury, poisoning and certain other Consequences of external causes ( s00-t98)	Male	1	4	14	107	114	107	142	167	70	84	1	811
		Female	1	7	7	37	36	37	40	48	30	59	0	302
		T	2	11	21	144	150	144	182	215	100	143	1	1113
XX.	External causes of morbidity And mortality ( v01-y89)	Male	3	2	13	107	115	111	139	173	71	88	0	822
		Female	1	8	7	38	35	40	45	48	30	62	0	314
		T	4	10	20	145	150	151	184	221	101	150	0	1136
<b>ALL CAUSES ( MAJOR GROUP I to XIX)</b>		Male	<b>603</b>	<b>113</b>	<b>158</b>	<b>371</b>	<b>537</b>	<b>1059</b>	<b>2601</b>	<b>4651</b>	<b>2966</b>	<b>6339</b>	<b>40</b>	<b>19438</b>
		Female	<b>505</b>	<b>113</b>	<b>138</b>	<b>187</b>	<b>306</b>	<b>589</b>	<b>1447</b>	<b>2297</b>	<b>1703</b>	<b>5014</b>	<b>8</b>	<b>12307</b>
		T	<b>1108</b>	<b>226</b>	<b>296</b>	<b>558</b>	<b>843</b>	<b>1648</b>	<b>4048</b>	<b>6948</b>	<b>4669</b>	<b>11353</b>	<b>48</b>	<b>31745</b>
<b>ALL CAUSES ( MAJOR GROUP I TO XX)</b>		Male	<b>606</b>	<b>115</b>	<b>171</b>	<b>478</b>	<b>652</b>	<b>1170</b>	<b>2740</b>	<b>4824</b>	<b>3037</b>	<b>6427</b>	<b>40</b>	<b>20260</b>
		Female	<b>506</b>	<b>121</b>	<b>145</b>	<b>225</b>	<b>341</b>	<b>629</b>	<b>1492</b>	<b>2345</b>	<b>1733</b>	<b>5076</b>	<b>8</b>	<b>12621</b>
		T	<b>1112</b>	<b>236</b>	<b>316</b>	<b>703</b>	<b>993</b>	<b>1799</b>	<b>4232</b>	<b>7169</b>	<b>4770</b>	<b>11503</b>	<b>48</b>	<b>32881</b>



# REPORT ON MEDICAL CERTIFICATION OF CAUSE OF DEATH-2019



Department of Economics & Statistics  
MCCD Division, Thiruvananthapuram-33,  
website: [www.ecostat.kerala.gov.in](http://www.ecostat.kerala.gov.in), email: [ecostatdir@gmail.com](mailto:ecostatdir@gmail.com)  
Ph: 0471- 2305318, Fax: 0471- 2305317